

# TEKNO<sup>®</sup>

construction chemicals

Choice of the best...



**Product Catalogue**





## Choice of the Best....

Tekno Yapı Kimyasalları A.Ş. which serves every region of Turkey effectively with latest technology factories in İstanbul, Kayseri, Afyon and Elazığ operates in construction chemicals sector. With its 500.000 tons/year production capacity and high product quality Tekno Yapı Kimyasalları A.Ş. is one of the leading companies in construction industry.

The experience and know-how achieved by co-operating with the world leader companies for many years is the motivation source of Tekno Yapı Kimyasalları A.Ş. In construction industry, new generation products developed in recent years have replaced with the traditional and classic adhesive, flooring, strengthening, repairing and water isolation products. Additionally, in paralel with progress in the building industry, a wide range of products have been introduced.

Studies are carried out by few specialized companies in this field in our country. At this point, Tekno Yapı Kimyasalları A.Ş. fills important gap for the solution of all kind of technical customer problems with its expert staff.

Tekno Yapı Kimyasalları A.Ş. which allocates significant resources to R&D activities continuously increases the variety of its products. R&D center located in İstanbul factory continues to realize many firsts in the sector with its expert engineers and chemists. Also many imported products have been localized in R&D center to provide substantial benefits to the Turkish economy.

Products are manufactured according to international quality standards in Tekno Yapı Kimyasalları A.Ş.'s facilities. They are subjected to the necessary tests from the first raw material entry to the final product quality control and the quality process continuity is guaranteed. The procedures defined within the framework of ISO 9001 quality management system are applied in all processes and relevant TSE, TSEK, CE and G quality certificates have gained for many products.

After-sales technical support is given by the technical specialists in the fastest way.

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# ADHESIVES AND JOINT FILLERS



# Teknofay

## Ceramic Tile Adhesive



Public Pos. No: 04.013/1

 TS EN 12004 – C1T

**Product Description** Cement based, ceramic and tile adhesive with high bonding strength and ability to work for a long time.

**Areas of Usage**

- It is used in vertical and horizontal applications,
- In houses, shopping malls, hospitals,
- For adhering materials such as small and medium sized tiles, ceramics with a water absorption rate of over 3%

**Features and Benefits**

- Easy to prepare and apply.
- It has high adhesion properties.
- It does not slip in vertical applications.
- It saves time and labor.

**Application Instructions**

- **Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The surfaces should be level, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. Teknofay application should be started 3-4 days later.
- **Surface Preparation:** If applied on marble, ceramics and pellets, the surfaces should be roughened. Concrete floor should be damp but water should not be debris. It is recommended to use lining on surfaces such as gaseous concrete, exposed concrete, gypsum board.
- **Mixing:** 6,8- 7,2 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 450 in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. The mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes.

**Application Notes / Restrictions**

- If there is a dusty surface (engop) behind the ceramic, it should be cleaned with a hard brush.
- Prepared mortar is spread to the surface with a notched trowel with a suitable tooth size. On combed mortar. If the coating materials (ceramic, tiles, etc.) are glued within 15 min. If this time has passed, the mortar should be scraped off from the surface and from the coatings. It should be applied with ready-made mortar.
- The product may irritate the skin contact. Work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work.
- In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be taken under protection of the environment to be below (+) 5°C, covered with nylon or heat insulation plates should be prevented to expose the product to freezing.
- (+) At temperatures above 35°C, cover with nylon or heat insulation plates to prevent the product from being exposed to sudden water loss.
- At least 24 hours after the application of the Teknofay, the joint must be filled.

- Do not add foreign matter.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Storage Conditions / Shelf Life

It should be stored in original unopened package, in cool and dry environment, protected from freezing.

## Technical Data

General Information	
Appearance/Color	Grey or White
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.8 - 7.2 l water / 25 kg powder
Pot Life	Min. 6 hours
Service Temperature	(-40 ° C) - (+80 ° C)
Slide	≤ 0,5 mm
Pedestrian Traffic Opening Time	1 day on the wall for 8 hours
Performance Information	
Open Time	≥ 0.5 N / mm <sup>2</sup> after 20 min.
Tensile Adhesion Strength	
After Dry Storage	≥ 0.5 N/mm <sup>2</sup>
After Wet Storage	≥ 0.5 N/mm <sup>2</sup>
After Heat Storage	≥ 0.5 N/mm <sup>2</sup>
After Freeze - Thaw Cycles	≥ 0.5 N/mm <sup>2</sup>
Fire Reaction Class	A1

## Consumption Table

Teknofay	Mixture Density (gr / lt)	1 m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~1,80	3 – 5	6,8 – 7,2

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknofay Plus

## Ceramic Tile Adhesive



 TS EN 12004 - C1TE

Public Pos. No: 04.013/1

**Product Description** It is cement based, polymer reinforced ceramic and tile adhesive mortar with high adhesion strength and extended working time.

**Areas of Usage**

- It is used in vertical and horizontal applications,
- In houses, shopping malls, hospitals,
- For adhering materials such as small and medium sized tiles, ceramics with a water absorption rate of over 3%

**Features and Benefits**

- Easy to prepare and apply.
- It has high adhesion properties.
- It does not slip in vertical applications.
- It saves time and labor.

**Application Instructions**

- **Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The surfaces should be level, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. Teknofay application should be started 3-4 days later.
- **Surface Preparation:** If applied on marble, ceramics and pellets, the surfaces should be roughened. Concrete floor should be damp but water should not be debris. It is recommended to use lining on surfaces such as gaseous concrete, exposed concrete, gypsum board.
- **Mixing:** 7,0 - 7,5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 450 in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. The mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes.

**Application Notes / Restrictions**

- If there is a dusty surface (engop) behind the ceramic, it should be cleaned with a hard brush.
- Prepared mortar is spread to the surface with a notched trowel with a suitable tooth size. On combed mortar. If the coating materials (ceramic, tiles, etc.) are glued within 15 min. If this time has passed, the mortar should be scraped off from the surface and from the coatings. It should be applied with ready-made mortar.
- The product may irritate the skin contact. Work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work.
- In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be taken under protection of the environment to be below (+) 5°C, covered with nylon or heat insulation plates should be prevented to expose the product to freezing.
- (+) At temperatures above 35°C, cover with nylon or heat insulation plates to prevent the product from being exposed to sudden water loss.
- At least 24 hours after the application of the Teknofay Plus, the joint must be filled.

- Do not add foreign matter.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Storage Conditions / Shelf Life

It should be stored in original unopened package, in cool and dry environment, protected from freezing.

## Technical Data

General Information	
Appearance/Color	Grey or White
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	7,0 - 7,5 l water / 25 kg powder
Pot Life	Min. 6 hours
Service Temperature	(-40 ° C) - (+80 ° C)
Slide	≤ 0,5 mm
Pedestrian Traffic Opening Time	1 day on the wall for 8 hours
Performance Information	
Open Time	≥ 0.5 N / mm <sup>2</sup> after 20 min.
Tensile Adhesion Strength	
After Dry Storage	≥ 0.5 N/mm <sup>2</sup>
After Wet Storage	≥ 0.5 N/mm <sup>2</sup>
After Heat Storage	≥ 0.5 N/mm <sup>2</sup>
After Freeze - Thaw Cycles	≥ 0.5 N/mm <sup>2</sup>
Fire Reaction Class	A1

## Consumption Table

Teknofay Plus	Mixture Density (gr / lt)	1 m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~1,80	3 - 5	7,0 - 7,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknofay Rapid

## Fast Setting Ceramic Tile Adhesive



### TS EN 12004 - C1FT

**Product Description** Cement based, high performance, flexible, rapid setting adhesive for ceramic tiles.

#### Areas of Usage

- Adhesion of absorbent wall ceramics to the concrete and plaster surfaces in interior places.
- On applications on gypsum plaster, gypsum panel, gas concrete and smooth concrete
- Used for bonding ceramics smaller than 40x40cm.
- It is ideal for places where it is required to be put into service in a day

#### Features and Benefits

- Fast setting,
- Easy to prepare and apply,
- It does not slip in vertical applications. Its properties are designed to reduce the slipping,
- It saves time.
- Because of its fast and high adhesion properties, it gives strength after 6 hours.
- Resistant to water, moisture and frost.
- Allows joint filling after 3 or 4 hours.

#### Application Instructions

**Surface Quality:** Surface must be clean, smooth, free from oil, dirt and rust. Weak parts must be removed and damaged surfaces should be repaired with TEKNOREP.

**Surface Preparation:** If the application is applied on marble, ceramic and polished surfaces, the surface should be roughened. The concrete floor should be moist, but there mustn't be any puddles on the surfaces.

**Mixing:** Pour 6.0- 7.5 lt of clean water into a clean mixing container. (Be sure that the water must be at room temperature; not hot or not cold). Add TEKNOFAY RAPID (25 kg kraft bag) into the water and mix it with a low speed mixer until you get a homogenous, workable admixture. Minimum mixing time must be 5 minutes. After mixing it, wait for 3 minutes without mixing it. Then mix it again for 2 minutes until you get a homogenous admixture.

**Storage Conditions and Shelf Life:** 12 months under proper storage conditions after production date. It should be stored in its original unopened package, in a cool and dry environment and should be protected from freezing.

#### Application Notes / Restrictions

- During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used.
- The mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and a physician should be consulted immediately.
- After the application, it should be protected against adverse weather conditions such as direct sunlight, strong wind, high air temperature, rain and frost.
- It must be protected under ambient conditions which is below (+) 5°C. To protect it from the cold weather or frost, cover it with nylon or heat insulation plates.
- At temperatures above (+) 35°C, it must be protected. To protect it from the hot weather, cover it with nylon or heat insulation plates. The product should not be exposed to sudden water loss.

- Do not add any foreign material in it.
- To fill the joints, wait at least 24 hours after you applied TEKNOFAY RAPID.
- Hands should be cleaned with water and detergent before curing. Before it hardens, wash soiled hands and skin thoroughly in hot soapy water.
- Clean tools and equipment with clean water immediately after use. Once hardened, product can only be removed mechanically.

## Storage Conditions / Shelf Life

It should be stored in original unopened package, in cool and dry environment, protected from freezing.

## Technical Data

General Information	
Appearance/Color	Grey
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6,0 - 7,5 l water / 25 kg powder
Pot Life	30 minutes
Service Temperature	(-40 ° C) - (+80 ° C)
Slide Ratio	≤ 0,5 mm
Joint Filling Time	3-4 hours
Performance Information	
Open Time	after 6 hours ≥ 0.5 N / mm <sup>2</sup>
Tensile Adhesion Strength	
After Dry Storage	≥ 1,0 N/mm <sup>2</sup>
After Wet Storage	≥ 1,0 N/mm <sup>2</sup>
After Heat Storage	≥ 1,0 N/mm <sup>2</sup>
After Freeze - Thaw Cycles	≥ 1,0 N/mm <sup>2</sup>
Dangerous Content (EN 12004)	Please see MSDS
Fire Reaction Class	A1

## Consumption Table

Teknofay Rapid	Mixture Density (gr / lt)	1 m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~ 1,70	3 - 5	6,0 - 7,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknofay Ex

## Flexible Ceramic and Granite Adhesive



 TS EN 12004 – C2TE

Public Pos. No: 04.013/1 - 04.013/4

**Product Description** C2TE class adhesive mortar with high bonding strength for porcelain, ceramic, granite ceramics, marble, briquette, etc.

### Areas of Usage

- indoor and outdoor, horizontal and vertical applications
- On terrace and balconies,
- In places such as a swimming pool that are constantly exposed to water,
- For adhering large size ceramics with a water absorption rate of less than 3%
- For adhering materials such as granite ceramic, marble and natural granite,
- Where there is a lot of heat difference,
- For applications on gypsum plaster, gypsum board, aerated concrete and exposed concrete,
- It gives excellent results in ceramic and granite bonding works on the exterior facades.
- For adhering natural stone, btb, glass mosaics,
- For adhering heat insulation boards and plates made of pumice or aerated concrete to exposed concrete,
- For walling with pumice or aerated blocks,
- In wet volumes such as swimming pool, water depot, bath, etc.
- On floors with floor heating, in heated pools, in thermal pools, in swimming pools where water is not drained in winter, in walls and floor coverings in cold storages.

### Features and Benefits

- Easy to prepare and apply.
- High adhesion.
- It does not slip in vertical applications.
- The processing time is long.
- No water permeability.

### Application Instructions

**Surface Quality:** The surfaces should be clean, smooth, sound and at the same time level, weak parts should be removed and damaged surfaces should be repaired with TEKNOREP. There should be no grease or mortar rust on the surface.

**Surface Preparation:** If applied on marble, ceramics and pellets, the surfaces should be roughened. Concrete floor should be damp but there should be no water accumulation.

**Mixing:** 6,8 - 7,2 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOGROUT EX in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. The mortar obtained at the end of the process should be rested for 5-10 min and mixed again until it becomes homogenous again for 1-2 minutes.

### Application Notes / Restrictions

- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be protected under ambient conditions below (+) 5°C, the product should be covered with nylon or exposed to freezing by spreading heat insulation plates.

- It must be protected at temperatures above (+) 35°C, covered with nylon or heat insulation plates should be laid out to prevent the product from being exposed to sudden water loss.
- At least 24 hours after application of Teknofay Ex, the joint filling should be started.
- Do not add foreign matter.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Teknofay Ex should be made with clean water without getting hard and hard. Immediately after application, hands and face should be washed thoroughly with soap and warm water.
- Immediately after applying the equipment, the mortar should be washed with water without hardening.

### Storage Conditions

It should be stored in original unopened package, in cool and dry environment, protected from freezing.

### Technical Data

General Information	
Appearance/Color	Grey or White
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.8 - 7.2 lt water / 25 kg powder
Pot Life	4 Hours
Service Temperature	(-40°C) - (+80°C)
Slide	5 mm
Pedestrian Traffic Opening Time	1 day on the wall for 8 hours
Performance Information	
Open Time	≥ 0.5 N/mm <sup>2</sup> after 30 min
Tensile Adhesion Strength	
After Dry Storage	≥ 1.0 N/mm <sup>2</sup>
After Wet Storage	≥ 1.0 N/mm <sup>2</sup>
After Heat Storage	≥ 1.0 N/mm <sup>2</sup>
After Freeze - Thaw Cycles	≥ 1.0 N/mm <sup>2</sup>
Fire Reaction Class	A1

### Consumption Table

Teknofay Ex	Mixture Density (gr / lt)	1 m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~1,80	3 - 5	6,8 - 7,2

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknofay Flex

Flexible and High Performance Ceramic  
and Granite Adhesive



  TS EN 12004 – C2TE S1

Public Pos. No: 04.013/1

**Product Description** Cement based, flexible adhesive mortar with reduced slip property used to adhere products such as ceramics, porcelain, granite, marble, natural stone, glass mosaic and pressed brick with extended working time. (C2=cement based adhesive with additional properties, T=reduced slip, E=extended open waiting time S1=flexible)

## Areas of Usage

- Indoor and outdoor, on terrace and balconies,
- In places such as a swimming pool that are constantly exposed to water,
- In the application of coating materials of size 40x40 cm and larger,
- Where there is intense pedestrian and load traffic or where heat changes are high,
- For adhering materials such as granite ceramic, marble and natural granite,
- Where there is a lot of heat difference,
- For applications on gypsum plaster, gypsum board, aerated concrete and exposed concrete,
- It gives excellent results in ceramic and granite bonding works on the exterior facades.
- For adhering natural stone, BTB, glass mosaics,
- In wet volumes such as swimming pool, water depot, bath, etc,
- On floors with floor heating, in heated pools, in thermal pools, in swimming pools where water is not drained in winter, in walls and floor coverings in cold storages.

## Features and Benefits

- High adhesion.
- It does not slip in vertical applications.
- Easy to prepare and apply.
- It is resistant to water, nipple and frost.
- Processing time is long.
- It does not slip in vertical applications.

## Application Instructions

Surface quality: The surfaces should be clean, smooth, sound and at the same time level, weak parts should be removed and damaged surfaces should be repaired with TEKNOREP. There should be no grease or mortar rust on the surface.

Surface Preparation: If applied on marble, ceramics and pellets, the surfaces should be roughened. Concrete floor should be damp but there should be no water accumulation.

Mixing: 6,0 - 7,2 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. Teknofay FLEX in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer with ceramic mixer tip until a homogeneous mixture without lumps is obtained. The mortar obtained at the end of the process should be rested for 5-10 minutes and mixed again until it becomes homogenous for 1-2 minutes.

## Application Notes / Restrictions

- The product may be irritating to the skin. Work clothes, protective gloves, masks and glasses must be used.
- A protective cream can also be applied before starting. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be protected under ambient conditions below (+) 5°C, the product should be covered with nylon or exposed to freezing by spreading heat insulation plates.

- It must be protected at temperatures above (+) 35°C, covered with nylon or heat insulation plates should be laid out to prevent the product from being exposed to sudden water loss.
- At least 24 hours after the application of Teknofay FLEX, the joint filling should be started.
- Do not add foreign matter.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above + 35°C), rain and frost. Teknofay FLEX should be cleaned with water without getting hard and hard. Immediately after application, hands and face should be washed thoroughly with soap and warm water.
- Immediately after applying the equipment, the mortar should be washed with water without hardening.
- Combined methods should be preferred in applications where there is intense pedestrian and load traffic or where heat changes are high.

### Storage Conditions

It should be stored in original unopened package, in cool and dry environment, protected from freezing.

### Technical Data

General Information	
Appearance/Color	Grey or White
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.0 - 7.0 water / 25 kg powder
Pot Life	Min. 6 hours
Service Temperature	(-40°C) - (+80°C)
Slip (EN 1308)	≤ 0.5 mm
Pedestrian Traffic Opening Time	1 day on the wall for 8 hours
Performance Information	
Open Time	≥ 0.5 N/mm <sup>2</sup> after 30 min
Tensile Adhesion Strength	
After Dry Storage	≥ 1.0 N/mm <sup>2</sup>
After Wet Storage	≥ 1.0 N/mm <sup>2</sup>
After Heat Storage	≥ 1.0 N/mm <sup>2</sup>
After Freeze - Thaw Cycles	≥ 1.0 N/mm <sup>2</sup>
Flexibility (EN 12002)	≥ 2,5 mm - S1 Flexible
Fire Reaction Class	A1

### Consumption Table

Teknofay Flex	Mixture Density (gr / lt)	1 m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~1,70	3 - 5	6,0 - 7,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknofay Super Flex

Flexible and High Performance Ceramic  
and Granite Adhesive



  TS EN 12004 - C2TE S2

Public Pos. No: 10.300.2205

**Product Description** Cement based, high performance, very flexible adhesive with reduced slip and extended open time for large-sized ceramic, granites, porcelain ceramics and natural stones.

## Areas of Usage

- Exterior bonding of all types ceramic granite or porcelain ceramics sized 40x40 cm up to 30 meter and 60x60 cm up to 15 meter height
- Bonding of tiles on places subject to heavy traffic like shopping malls, hospitals and schools.
- In the adhesion of ceramics, natural/composed Stones, travertine, granites, cottos, press bricks, porcelains, ceramics, marbles, and to all kinds of surfaces (like cement based surfaces, concrete, precast concrete components, plasters, etc.) in inner and outer areas for vertical and horizontal applications.
- In wet volumes like swimming pools, bathrooms, water tanks, etc.
- In underfloor heating surfaces, heated pools, thermal pools, swimming pools. In the wall and floor tiles of cold storage houses.

## Features and Benefits

- Perfect adhesion performance,
- It is resistant against tensions and vibrations rooting from temperature differences.
- Resistant to all kinds of climatic conditions. No sliding in vertical applications.
- Easy to prepare.
- Long operating time Very good workability
- High flexibility.

## Application Instructions

Application surface has to be clean, strong, dry and free from all kind of substances that prevent adhesion. Disordered surface must be repaired with TEKNOREP repair mortar. Surface must be moisturized before the application. Necessary amount of water is poured into a clean mixing container. 25 kg TEKNOFAY SUPERFLEX is slowly added to the water and mixed with a 400 - 600 RPM low speed mixer until a homogenous mixture is obtained. Leave to mature around 5-10 min, while all additives are completely dissolved and then stir it again for 1-2 min. In 30 minutes, ceramics, tiles or granites should be applied by pressing them. This period may be shortened in applications made in unsuitable ambient conditions such as high temperature, low humidity and wind. Bonding process should not be done on the expired mortar. The mortar must be scraped off the surface. Large size ceramics/tiles, granites or the coating materials should be bonded in the horizontal direction. Until the first row gets its strength, you shouldn't pass to an upper row. The expired or crusted mortar in the container should be discarded. After application, hands must be washed with plenty of water and soap. All the tools and equipment must be cleaned by water after application. After TEKNOFAY SUPERFLEX is hardened, it can only be removed from the surface mechanically.

**Health and Safety Precautions:** TEKNOFAY SUPERFLEX contains cement and may cause allergic reactions. Work in well-ventilated rooms or outdoors. Avoid contact with eyes and skin. Must be stored away from children. Please look at the Material Safety Data Sheet for detailed information.

**Storage Conditions:** Must be stored in unopened original packing, and in cool and dry environment protected from freezing. Keep away from moisture.

## Application Notes / Restrictions

- The product may be irritating to the skin. Work clothes, protective gloves, masks and glasses must be used.
- A protective cream can also be applied before starting. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be protect under ambient conditions below (+) 5°C), the product should be covered with nylon or exposed to freezing by spreading head insulation plates.
- It must be protected at temperatures above (+) 35°C, covered with nylon or heat insulation plates should be laid out to prevent the product from being exposed to sudden water loss.
- At least 24 hours after the application of Teknofay Superflex, the joint filling should be started.
- Do not add strange material.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above + 35°C), rain and frost. Teknofay Superflex should be cleaned with water without getting hard and hard. Immediately after application, hands and face should be washed thoroughly with soap and warm water.
- Immediately after applying the equipment, the mortar should be washed with water without hardening.
- Combined methods should be preferred in applications where there is intense pedestrian and load traffic or where heat changes are high.

## Technical Data

General Information	
Appearance/Color	Grey Powder
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.0 - 6,5 water / 25 kg powder
Pot Life	Min. 4 hours
Service Temperature	(-40°C) - (+80°C)
Slip (EN 1308)	≤ 0.5 mm
Pedestrian Traffic Opening Time	1 day on the wall for 8 hours
Performance Information	
Open Time	≥ 0.5 N/mm <sup>2</sup> after 30 min
Tensile Adhesion Strength	
After Dry Storage	≥ 1.0 N/mm <sup>2</sup>
After Wet Storage	≥ 1.0 N/mm <sup>2</sup>
After Heat Storage	≥ 1.0 N/mm <sup>2</sup>
After Freeze - Thaw Cycles	≥ 1.0 N/mm <sup>2</sup>
Flexibility (EN 12002)	≥ 5 mm - S2 Very Flexible
Fire Reaction Class	A1

## Consumption Table

Teknofay Super Flex	1 m <sup>2</sup> Powder Consumption (kg)
25 kg kraft bag	4-5

# Teknofay Super Flex (2K)

Flexible and High Performance  
Ceramic and Granite Adhesive (2 Components)



  TS EN 12004 - C2TE S2

Public Pos. No: 10.300.2205

**Product Description** Two components high performance cementitious, very flexible adhesive with reduced slip and extended open time for large-sized ceramic, granites, porcelain ceramics and natural stones.

## Areas of Usage

- Exterior bonding of all types ceramic granite or porcelain ceramics sized 40x40 cm up to 30 meter and 60x60 cm up to 15 meter height
- Bonding of tiles on places subject to heavy traffic like shopping malls, hospitals and schools.
- For interior and exterior applications on cementitious screeds and concrete.
- On the floor heating, in heated pools, in thermal pools, on the walls and floor coverings in cold storages.

## Features and Benefits

- Perfect adhesion performance,
- It does not slip in vertical applications.
- High durability, flexibility and resistance to temperature changes.
- Easy to prepare and apply.
- Extended open time.

## Application Instructions

**Surface Quality:** The surfaces should be clean, smooth sound and at the same time level, weak parts should be removed and damaged surfaces should be repaired with TEKNOREP. There should be no grease or mortar rust on the surface.

**Surface Preparation:** If applied on marble, ceramics and pellets, the surfaces should be roughened. Concrete floor should be damp but there should be no water accumulation.

**Mixing:** Pour 25 kg of powder component in to 5,8 litres liquid component and mix slowly until obtaining a homogenous paste free from lumps. A low speed mixer is recommended to mix. Allow to stand 5 minutes and after 1-2 minutes remixing, the paste is ready for application.

**Storage Conditions:** Must be stored in unopened original packing, and in cool and dry environment protected from freezing. Keep away from moisture.

## Application Notes / Restrictions

- The product may be irritating to the skin. Work clothes, protective gloves, masks and glasses must be used.
- A protective cream can also be applied before starting. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be protected under ambient conditions below (+) 5°C, the product should be covered with nylon or exposed to freezing by spreading head insulation plates.
- It must be protected at temperatures above (+) 35°C, covered with nylon or heat insulation plates should be laid out to prevent the product from being exposed to sudden water loss.
- At least 24 hours after the application of Teknofay Superflex, the joint filling should be started.
- Do not add strange material.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above + 35°C), rain and frost. Teknofay Superflex should be cleaned with water without getting hard and hard. Immediately after application, hands and face should be washed thoroughly with soap and warm water.

## Application Notes / Restrictions

- Immediately after applying the equipment, the mortar should be washed with water without hardening.
- Combined methods should be preferred in applications where there is intense pedestrian and load traffic or where heat changes are high.

## Storage Conditions

It should be stored in original closed package, in cool and dry environment, protected from freezing.

## Technical Data

General Information	
Appearance/Color	1 st Comp.: Grey Powder - 2 nd comp: White
Shelf Life	12 months
Package	25 kg kraft bag and drum
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	5,80 kg liquid comp. - 25 kg powder comp.
Pot Life	Min. 4 hours
Service Temperature	(-40°C) - (+80°C)
Slip (EN 1308)	≤ 0.5 mm
Pedestrian Traffic Opening Time	1 day on the wall for 8 hours
Performance Information	
Open Time	≥ 0.5 N/mm <sup>2</sup> after 30 min
Tensile Adhesion Strength	
After Dry Storage	≥ 1.0 N/mm <sup>2</sup>
After Wet Storage	≥ 1.0 N/mm <sup>2</sup>
After Heat Storage	≥ 1.0 N/mm <sup>2</sup>
After Freeze - Thaw Cycles	≥ 1.0 N/mm <sup>2</sup>
Flexibility (EN 12002)	≥ 5 mm - S2 Flexible
Fire Reaction Class	B

## Consumption Table

Teknofay Super Flex (2K)	1 m <sup>2</sup> mixture Consumption (kg)
5,80 kg liquid 25 kg kraft bag	4-6

# Teknofay 500

## Aerated Concrete Adhesive



CE TS EN 998-2

Public Pos. No: 04.478

**Product Description** Cement based, polymer-reinforced, ready-to-use aerated concrete adhesive mortar with increased adhesion strength and high water absorption.

**Areas of Usage**

- Indoor and outdoor,
- In vertical and horizontal applications,
- Houses, shopping malls, hospitals,
- It is used for bonding structural elements such as aerated concrete, bricks.

**Features and Benefits**

- Partially resistant against water, damp and frost.
- Its application is easy.
- It has high adhesion strength.
- It saves time and labor.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The surface must be leveled so that the wall can be covered properly. Weak parts should be removed.

Surface Preparation: Concrete floor should be damp but there should be no water accumulation. It is advised to lightly moisten before the water is drained.

Mixing: 6,5 - 8,5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOFAY 500, which is in a 25 kg bag, is poured into the container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes.

**Application Notes / Restrictions**

- Prepared mortar is spread to the surface with a toothed trowel or trowel with appropriate tooth size. Prepared mortar should be applied on the concrete within 5 minutes. If this time has passed, it must be scraped off. The laid bricks should be made appropriate to yard and template by hammering from top and side.
- The amount of consumption given is theoretical and may vary depending on application temperature, aerated concrete brick, surface and workmanship. We recommend sample application for consumption control.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.
- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- It must be taken under protection of the environment under conditions of +5°C, covered with nylon or heat insulation plates should be prevented to expose the product to freezing.

- It must be absolutely protected at temperatures above +35°C, enclosed with nylon or laid out with thermal insulation plates to prevent the product from being exposed to sudden water loss.
- Do not add foreign matter.

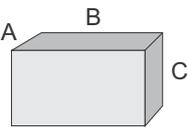
### Storage Conditions

- It should be stored in original unopened package, in cool and dry environment, protected from freezing.

### Technical Data

General Information	
Appearance/Color	Grey or White
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.5 - 8.5 lt water / 25 kg powder
Processing Time (EN 1015-9)	5-7 hours
Correction Time (EN 1015-9)	5-7 minutes
Performance Information	
Compressive strength / Class (EN 1015-11)	≥ 10 N/mm <sup>2</sup> / M10
Air Content (EN1015-7)	≤ 20%
Bond Strength (EN 998-2)	≥ 0.3 N/mm <sup>2</sup> (Chart value)
Capillary Water Absorption (EN 1015-18)	≤ 0.4 N/mm <sup>2</sup> min <sup>0,5</sup>
Water Vapor Transmission (EN 1745)	15/35 (Chart value)
Fire Reaction Class	A1

### Consumption Table

	A	B	C	Consumption kg / m <sup>2</sup>
	20	50	20	5-7
	30	50	15	3-5
	30	50	20	4-6

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknofay 510

## Pumice Block and Brick Bonding Mortar



CE TS EN 998-2

Public Pos. No: 04.478

**Product Description** Cement-based, ready-to-use Pumice block and brick bonding mortar with high adhesion strength.

**Areas of Usage**

- Indoor and outdoor,
- In industrial applications
- Blocks of bricks and piles.

**Features and Benefits**

- Ready to use.
- It provides a long working time
- It allows easy mixing and application.
- It can be used easily in horizontal and vertical applications.

**Application Instructions**

Surface Preparation: The surfaces must be clean, smooth, sound and at the same time level. There should be no oil, dirt and rust on the surface. The wall element should be damp but not water accumulation.

Mixing: 3 - 4 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOFAY 510, which is in a 25 kg bag, is poured into the container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 3 min. The mortar obtained at the end of the process should be rested for 5 min. and mixed again until it becomes homogenous for 2 min. The sides of the Pumice (Briquette) blocks are filled with adhesive so that there are no gaps. The prepared mortar should be consumed within 4 hours according to the ambient temperatures. After this application, a damp sponge is used to final shape the adhesive. The mortar should be discarded if the shelf life is past or it's crusted.

Cleaning: It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be made with clean water without getting hard and cured . Immediately after application, hands and face should be washed thoroughly with soap and warm water.

**Application Notes / Restrictions**

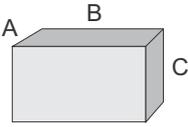
- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. A protective cream can also be applied before starting. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Do not add foreign matter.
- Water should be added to the product that has expired and not be used again.
- Certainly a mixer must be used. Mixtures made with shovels, trowels, etc. will get more water, and the mortar consistency will be more crushed and will cause burrs and crushing between the blocks. This affects the quality of masonry in the negative direction.
- It must be taken under protection of the environment under conditions of +5°C, covered with nylon or heat insulation plates should be prevented to expose the product to freezing.
- It must be absolutely protected at temperatures above +35°C, enclosed with nylon or laid out with thermal insulation plates to prevent the product from being exposed to sudden water loss.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

**Storage Conditions** It should be stored in original unopened package, in cool and dry environment, protected from freezing.

## Technical Data

General Information	
Appearance/Color	Grey or White
Shelf Life	12 months
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	4 - 5 lt water/25 kg powder
Mortar Density	~ 1,95 kg/lt
Drinking Time (EN 1015-9)	5-7 hours
Correctable Time (EN 1015-9)	5-7 minutes
Performance Information	
Pressure Resistance / Class (EN 1015-11)	≥ 10 N/mm <sup>2</sup> / M10
Air Content (EN1015-7)	≤ %20
Bond Strength (EN 998-2)	≥ 0.3 N/mm <sup>2</sup> (Chart value)
Capillary Water Absorption (EN 1015-18)	≤ 0.4 N/mm <sup>2</sup> min <sup>0.5</sup>
Water Vapor Transmission (EN 1745)	15/35 (Chart value)
Fire Reaction Class	A1

## Consumption Table

	A	B	C	Consumption kg / m <sup>2</sup>
	9	39	24	4-5
	14	49	24	5-6,5
	19	49	24	6-8
	24	49	24	10,5-12
	9	39	19	3,5-4,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknofay 200

## Paste Type Tile Adhesive

### D2TE

<b>Product Description</b>	Emulsion polymer based, high performance, slip resistant, ready to use paste adhesive with extended open time for the installation of ceramic tiles on walls and floors.
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• In inner areas for vertical applications.</li><li>• In the adhesion of ceramics, tiles, glass mosaics.</li><li>• In the adhesion of gypsum-plasterboard, wooden surfaces, painted surfaces and gypsum-plaster walls</li><li>• In adhesion of ceramic on old coverings like ceramic tiles, mosaic and marble</li><li>• In heat insulation sheets</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Ready to use.</li><li>• Easy to apply and saves labor</li><li>• High bonding strength</li><li>• Enables flexible adhesion layer.</li><li>• Extended open time and has non-slip property.</li></ul>
<b>Application Instructions</b>	<p><b>Surface Preparation:</b></p> <p>*Application surface has to be clean, dustless, dry, strong and also in balance. *Surface must be cleaned off all kinds of oil, grease and rust which can weaken adherence. *No loose particles must be present. Cracks should be repaired with TEKNOREP or TEKNOSELF.</p> <p><b>Application Method:</b> Must be mixed before the application. TEKNOFAY 200 is applied on application surface with the flat side of the trowel. In an area that can be covered in 30 minutes, period of open waiting, TEKNOFAY 200 is applied by serrated side of trowel in single direction in uniform thickness. Rubber Mallet can be used in the adhesion of ceramics or tiles with different thicknesses. After ceramic or tile application, to fill the left joint gaps, TEKNO joint sealants must be used. If the application time of adhesive has passed in this case, the adhesive is scraped off the surface and new adhesive is applied. To test it, fingers are pressed on the TEKNOFAY 200 paste type tile adhesive applied surface. If the adhesive smeared on the fingers, application of ceramics or glass mosaics is continued. If the fingers are clean, it means that the application time of adhesive has passed.</p> <p><b>Storage Condition:</b> Must be stored in unopened original packing, between 5°C - 23°C and away from direct sunlight and in cool and dry environment protected from freezing.</p> <p><b>Shelf life:</b> 12 months from date of production if stored in original, unopened, undamaged packages</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• If environmental temperature is below +5°C or over +30°C in TEKNOFAY 200 application, then suitable temperatures must be waited for.</li><li>• TEKNOFAY 200 application should not be made in very hot, rainy or windy weather conditions.</li><li>• After the application, it hardens immediately. Hands and skin should be washed thoroughly in hot soapy water.</li><li>• Clean tools and equipment with clean water immediately after use. Once hardened, product can only be removed mechanically. In this case clean tools and equipment with TEKNOTHINNER immediately after use.</li></ul>

**Storage Conditions** 12 months in warehouses without exposure to sunlight, at room temperature.

## Technical Data

General Information	
Appearance/Color	White colored paste type tile adhesive
Shelf Life	12 months
Package	25 kg plastic bucket
Application Information	
Application Temperature	(+5°C) - (+35°C)
Joint Filling Time	After 1-2 days (EN 1308)
Open Time	After 30 minutes (EN 1346)
Grouting	< 0.5 N/mm <sup>2</sup> (24 - 48 hours)
Consumption	1,5 - 2 kg / m <sup>2</sup>
Performance Information	
Shear Adhesion Strength (EN 1324)	
- initial (after 28 days)	≥ 1,0 N/mm <sup>2</sup>
- after heat exposure	≥ 1,0 N/mm <sup>2</sup>
- after immersion in water	≥ 0,5 N/mm <sup>2</sup>
- at elevated temperatures	≥ 1,0 N/mm <sup>2</sup>
Service Temperature Range (after final cure)	(-30°C) - (+35°C)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknobond 200 P

## R2T Class Polyurethane Adhesive Paste



Public Pos. No: 04.380/013

**Product Description** Polyurethane based, two component, solvent free, thixotropic, closing and adhesive paste for correcting elastic floor, infilling, multi purpose bonding.

- Areas of Usage**
- Repair of capillary cracks on concrete surfaces
  - In all kinds of industrial floor coatings for the purpose of chamfering in horizontal-vertical joints,
  - On surfaces such as metal, stone, concrete, wood, eternite, glass,
  - Parquet, carpet bonding,
  - Can be used for floor correction.
  - For surfaces such as metal, sheet metal, marble and granit.
  - Bonding TEKNOMER DILATATION TAPES.

- Features and Benefits**
- Easy to apply.
  - Thixotropic, no flow.
  - It is resistant to chemicals and aging.
  - Solvent-free
  - It's impermeable.
  - It has semi-matte and smooth appearance.
  - Provides excellent adherence for surfaces such as metal, sheet metal, marble and granit.

**Application Instructions**

Surface Quality: The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), pull off strength should be at least 1.5 N/mm<sup>2</sup>.

Surface Preparation: The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. The best adhesion is obtained by application with TEKNOBOND 110 polyurethane primer.

Mixing: After component B has been added to component A, stir for 2-3 minutes until a homogeneous color is obtained with a low speed, electric stirrer (max. 400 rpm). The workmanship depends on the roughness of the concrete floor.

- Application Notes / Restrictions**
- In order to complete the hardening of the material, do not use below the minimum allowable temperature.
  - Low temperatures will slow the hardening, while higher temperatures will accelerate the hardening.
  - The pot life will also vary depending on the temperatures.
  - The product may irritate the skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
  - Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER. Hardened polyurethane mortar can only be mechanically cleaned.
  - Component B is harmful because it contains isocyanate.
  - Do not add any foreign material into the product.
  - Component quantities are set to measured. Do not use component A or component B in a lesser amount.

**Storage Conditions** 12 months in warehouses without exposure to sunlight, at room temperature.

## Technical Data

<b>General Information</b>	
Appearance/Color	White
Shelf Life	12 months
Package	20 kg set
<b>Application Information</b>	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	9 Units A Component; 1 Unit B Component (by weight)
Mixing Density	1,35 ± 0,05 gr/ml
Pot Life	45-60 dk
Consumption	~1.5 kg / m <sup>2</sup> (On smooth surfaces, with 4x4x4mm threaded comb)
Service Temperature	(-30°C) - (+80°C)
Slip (EN 1308)	<0,5 mm
Pedestrian Traffic Opening Time	1 day
Full Strength Time	7 days
<b>Performance Information</b>	
Cutting Adhesion Strength	
Beginning	≥ 2,0 N/mm <sup>2</sup>
After immersed in water	≥ 2,0 N/mm <sup>2</sup>
After Thermal Shock	≥ 2,0 N/mm <sup>2</sup>
Flexibility	Excellent
Hardness (Shore A)	~80

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknobond 220

## Stone and Marble Glue

<b>Product Description</b>	Teknobond 220 is a two component unsaturated polyester resin based quick drying adhesive system specially formulated for fixing Marble / granite to each other & along with bolts to fix the Marble vertically on exteriors of big buildings.
<b>Areas of Usage</b>	<p>Teknobond 220 is most suitable for repairs, marble/ granite artifacts for e.g,</p> <ul style="list-style-type: none"><li>• Monuments &amp; Souvenirs making</li><li>• Pillar work</li><li>• Arches in villas – Inside / outside</li><li>• Marble upon marble fixing</li><li>• Repair work of Marble oFilling pores/cracks in Italian Marble</li><li>• In hotel projects – Plywood to Marble joints</li><li>• Used along with bolts to fix Marble vertically on the exteriors of big buildings.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Teknobond 220 has strong binding power, fast hardening, easy to spread, very good polishing &amp; homogeneous color.</li><li>• Teknobond 220 has pot life of 3-4mins, handling time achieved in 10-15mins &amp; curing achieved in 2-3hrs,</li><li>• Teknobond 220 increases the output by achieving handling strength in 30mins.</li><li>• Teknobond 220 can be polished for glossy finish similar to the surface applied.</li></ul>
<b>Application Instructions</b>	<p><b>Surface Preparation:</b> Remove the loose and weak layer on the marble, granite and concrete surface, using a wire brush.</p> <p><b>Preparation of Mix &amp; Application of Glue:</b> It is taken from component A in the amount to be applied and approximately 2-3% of it is taken from Component B and quickly mixed with a trowel and applied to the surface to be applied. After the product is mixed, it gives an average working time of 2-3 minutes at 20°C. During this time, the mixed product should be finished. After the application, the surface to be transported becomes ready for use within 15-30 minutes in an environment at 20 °C. Ossification rate may vary according to the ambient air temperature.</p> <p><b>Application Method / Equipment:</b> The prepared mixture is applied to the surface to be adhered with a spatula.</p> <p><b>Surface and Environmental Temperature:</b> At least +5 °C to +35 °C</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• The product may irritate the skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.</li><li>• Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER. Hardened polyurethane mortar can only be mechanically cleaned.</li><li>• Do not add any foreign material into the product.</li></ul>

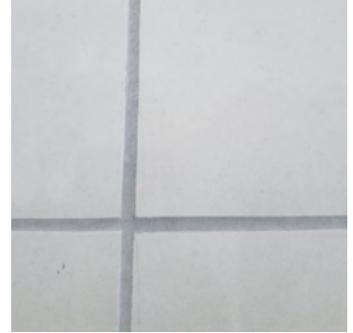
## Technical Data

General Information	
Appearance/Color	Biege
Shelf Life	9 months
Package	1200 gr brüt weight with hardener
Application Information	
Application Temperature	(+5°C) - (+35°C)
Density	1,75 ±0,05 gr/ml
Full Strength	7 days
Adhesion Strength (to concrete)	>2 N/mm <sup>2</sup>
Hardness (Shore—D) ( after 24hrs )	>75
Pot life with 3% hardener	2-3 min.
Mix Ratio	% 3 Hardener of the Resin by wt

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknoderz

Joint Filler, Fuga (1-6 mm)



  TS EN 13888 – CG1

Public Pos. No: 04.013/2

**Product Description** Cement based joint filler for ceramics and tiles.

- Areas of Usage**
- Indoors,
  - In horizontal and vertical joints,
  - Tiles, ceramics, natural stone,
  - Pressed brick, glass mosaic, granite,
  - Suitable for 1 -6 mm joint spacing.

- Features and Benefits**
- Easy to prepare and apply.
  - Provides a smooth surface.
  - It is abrasion resistant.
  - It does not crack.
  - Long workability time.

**Application Instructions**

Surface Preparation: Joints on floors coated with tiles, ceramic, natural stone, pressed bricks, glass mosaic, granite and other flooring materials should be cleaned thoroughly before application, removed from dust and wiped with a wet sponge.

Mixing: The material becomes ready for use only by adding water. 20 kg TEKNODERZ is poured into 6.0 - 6.4 lt water. The mixture is mixed with a slow speed drill until homogenous. When the prepared mixture reaches the desired consistency, it is rested for 5 minutes and mixed again. The mixture is applied to the surface by means of rubber trowel in horizontal and vertical applications.

Cleaning: It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above+35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

- Application Notes / Restrictions**
- 6,0 - 6,4 lt clean, clear water received from normal ambient temperature into a clean container which is free kinds of materials which prevent adhesion.
  - The depth between the joints should be at least 2/3 of the ceramic thickness.
  - TEKNODERZ in 20 kg bag as powder is poured into a container filled with water.
  - The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained.
  - The mortar obtained at the end of the process should be rested for 5-10 minutes and mixed again until it becomes homogeneous for 1-2 minutes.

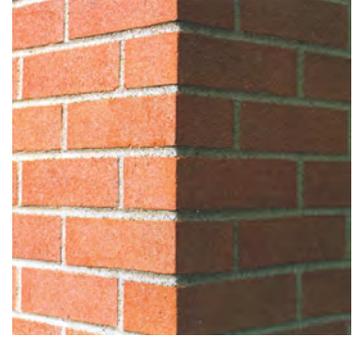
## Technical Data

<b>General Information</b>	
Appearance/Color	White and colored very fine powder
Shelf Life	12 months in unopened package in dry environment
Package	20 kg kraft bag
<b>Application Information</b>	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.0 - 6.4 lt water / 20 kg powder
Pot Life	1 hour
Time to put into service	1 day
Consumption	See. Joint Filling Consumption Table
<b>Performance Information</b>	
Flexural Strength (EN 12808-3)	≥ 2.5 N/mm <sup>2</sup>
Bending After Freeze - Thaw Cycles (EN 12808-3)	≥ 2,5 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 15 N/mm <sup>2</sup>
After Freeze - Thaw Cycles. (EN 12808-3)	≥ 15 N/mm <sup>2</sup>
Shrinkage (EN 12808-4)	≤ 3 mm/m
Water Absorption 30 min	≤ 5g
Water Absorption 4 hours (EN 12808-5)	≤ 10g
Temperature Resistance	(-30°C) - (+80°C)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknoderz Ex

Flexible Joint Filler, Fuga (1-6 mm)



  TS EN 13888 – CG2WA

Public Pos. No: 04.013/2

**Product Description** Cement based, flex grouting for ceramic tiles, marble and granite. Because it contains silicone, it's water repellent.

**Areas of Usage**

- Indoor and outdoor,
- In large size ceramic, tile and granite ceramic joints,
- In natural joints of natural granite, pressed brick, marble, glass mosaic and natural stone blocks,
- Hospitals, housing and shopping centers,
- In spaces with intensive pedestrian traffic and open to fast use.

**Features and Benefits**

- No color fading, dust or crack.
- Because it is flex, it is not affected by sudden temperature changes.
- Because it is of silicone, it is resistant to water and frost.
- Ideal for spaces to be opened for fast use.
- It can be used in floor heating systems.

**Application Instructions**

Surface Quality: Ensure that the adhesive used in the floor covering is hardened, manual inspection is required. Application should be made at least 24 hours after application of the adhesive.

Surface Preparation: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The surfaces should be level, weak parts should be removed.

**Application Notes / Restrictions**

- 6,0 - 6,4 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion.
- The depth between the joints should be at least 2/3 of the ceramic thickness.
- TEKNODERZEX, which is in a 20 kg bag in powder form, is poured into a container full of water.
- The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained.
- The mortar obtained at the end of the process should be rested for 5-10 minutes and mixed again until it becomes homogeneous for 1-2 minutes.

## Technical Data

<b>General Information</b>	
Appearance/Color	White or Colored Powder
Shelf Life	12 months in unopened package in dry environment
Package	20 kg kraft bag
<b>Application Information</b>	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6.0 - 6.4 lt water / 20 kg powder
Pot Life	1 hour
Time to Put Into Service	1 day
Consumption	See. Joint Filling Consumption Table
<b>Performance Information</b>	
Flexural Strength (EN 12808-3)	≥ 2.5 N/mm <sup>2</sup>
Bending After Freeze - Thaw Cycles (EN 12808-3)	≥ 2,5 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 15 N/mm <sup>2</sup>
After Freeze - Thaw Cycles (EN 12808-3)	≥ 15 N/mm <sup>2</sup>
Wear Resistance (EN 12808-2)	≤ 1000 mm <sup>3</sup>
Shrinkage (EN 12808-4)	≤ 3 mm/m
Water Absorption 30 min.	≤ 2 g
Water Absorption 4 hours (EN 12808-5)	≤ 5 g
Temperature Resistance	(-30°C) - (+80°C)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknobond 250

## Industrial PVC Floor Adhesive



Public Pos. No: 04.768/2

**Product Description** Acrylic-based, water-based, new generation PVC and linoleum floor covering adhesive with high-adhesion strength.

- Areas of Usage**
- Hospitals, laboratories, housing, shopping center,
  - PVC, PU, latex backed flooring,
  - Marley, marble, linoleum,
  - Homogeneous and heterogeneous floor coverings,
  - PVC, PU and latex coated applications,
  - In flexible and woven insulated surface coatings,
  - On ready-made flat and absorbent surfaces,
  - For bonding carpet, PVC coated materials, concrete and shoe.

- Features and Benefits**
- Easy to apply.
  - Long working range and high strength.
  - Solvent-free
  - It gives high performance in initial and final adhesion.
  - It is suitable for floor heating from the ground.
  - It is resistant to wheel chair loads.

**Application Instructions**

Surface quality: The surface of the application should be cleaned from materials which prevent adhesion such as dust, oil, tar, detergent and mold oil. Loose parts should be dismantled, cleaned with compressed air compressor or vacuum.

Surface Preparation: If there are gaps, swelling and undulation on the floor, surface leveling should be done using TEKNOSELF or TEKNO-SELF 500. Priming with TEKNOLATEX 200 can be done if necessary according to the floor condition.

TEKNOBOND 250 is applied to the surface with a sawtooth trowel. The consumption is adjusted according to the tooth depth of the trowel. TEKNOBOND 250 is bonded to the PVC coating surface without forming the adhesive film layer within 2-3 minutes as it is applied to the surface. Once adhesion is achieved, pressure is applied for a short period of time.

- Application Notes / Restrictions**
- The heating system for floor heating must be operated 10 days before the coating and should be closed during coating.
  - The floor temperature should be between +18 and +25°C for optimum operation.
  - The heater can be started again 72 hours after coating.
  - The layer which may be formed on the surface during a long storage period should be discarded before use.
  - All equipment used, immediately after application, not yet hardened; should be cleaned with hot water. The cured product can only be mechanically cleaned.
  - Hands should be washed with warm water and soap.
  - Eye contact should be avoided.

## Technical Data

General Information	
Chemical Structure	Water based acrylic based
Appearance	Grey
Shelf Life	12 Months in unopened package in dry environment
Package	20 kg bucket
Application Information	
Application Temperature	(+10°C) - (+35°C)
pH	6,5 - 7,5
Consumption	250 - 300 gr/m <sup>2</sup>
Operating Time	45-50 min.
Duration of Duration	15-20 min.
Trailer Opening Time	~24 Hours
Density (kg/lt)	~1.35
Resistance To Mechanical Effects	24 Hours
Last Dry	3-4 Days
Heat Resistance	50°C

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknobond 700

Chemical Resistant Epoxy Based  
Joint Filler and Tile Adhesive



Public Pos. No: 04.380/013

**Product Description** Epoxy resin based, two component, chemically and bacteriologically resistant, easy to apply and epoxy grouting that can be cleaned with water.

**Areas of Usage**

- In joints of floor and wall coverings,
- In laboratories, hospitals and supermarkets,
- Slaughterhouse, dairy, ready-made meals and food industry structures,
- Thermal swimming pools, mineral water / salt tanks, zoos, industrial chemical plants,
- In olive oil, sunflower etc., in vegetable oil deposits.
- It is resistant to various chemicals, abrasive waters, organic salts and acids,

**Features and Benefits**

- Easy to be processed.
- High mechanical and chemical resistance.
- It is resistant to various chemicals, acids, alkalis and oils.
- Has antibacterial properties and does not form mold, fungus and bacteria.
- Wear resistance is high.
- Applied Teknobond 700 is dirt-resistant and easy to be cleaned afterwards.
- It is suitable for joint widths from 2 mm to 10 mm.
- It is resistant to short-term sudden temperature changes.
- It is resistant to freeze-thaw cycles.
- During the application, the resin that permeates to the ceramic surface can be cleaned with water.

**Application Instructions**

Surface Quality: Joints and joint surfaces must be free from grease, grime, and dirt from all kinds of dust, dirt, weak and volatile particles, grout residues.

Surface Preparation: Joints and joint surfaces should be cleaned using appropriate methods to ensure maximum adhesion strength, and be sure to use the applied tile adhesive.

It is bonded on the masking tape coating to prevent adhesion of the TEKNOBOND 700 to the floor covering and to prevent the adhesion of the floor beforehand to save money and time for cleaning later. After application is finished, the tape is removed.

Mixing: After component B has been added to component A, stir for 2-3 minutes until a homogeneous color with a low speed, electric stirrer (up to 400 rpm) is obtained.

**Application Notes / Restrictions**

- TEKNOBOND 700 can be applied with mortar gun. Spray the prepared mortar, then fill in a suitable nozzle and fill in the joints.
- Clean the overflowing material with warm water and a sponge. Pressing and washing must be avoided in cleaning performed by rubbing.
- Immediately after the application, not yet hardened, equipment should be washed with warm water, hands should be washed with clean warm water and soap. The hardened mortar can only be mechanically cleaned.
- In order to complete the hardening of the material, do not use below the minimum allowable temperature. Low temperatures will slow the hardening, while higher temperatures will accelerate the hardening. The pot life will also vary depending on the temperatures.

- The product may irritate the skin contact. Protective gloves, masks and goggles should be used. Hand protection cream may be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- If it remains below 0°C for a long time, crystallization can be observed. If the crystals are dissolved by bringing the product back to room temperature, it can be used without any problems.
- Before applying Teknobond 700 between ceramics, the adhesive must be cured.
- Color discrepancies in the cured product due to direct sunlight (UV) may cause yellowing.

## Technical Data

General Information	
Chemical Structure	Epoxy based
Appearance	Rale colors
Shelf Life	12 months in unopened package in dry environment
Package	5 kg set
Consumption	For bonding purposes 3 - 4 kg/m <sup>2</sup> See grouting table for grouting
Application Information	
Application Temperature	(+10 ° C) - (+27 ° C)
Pot Life	2 hours at 25°C
Opening Time for Traffic	1 day
Performance Information	
Flexural Strength (EN 12808-3)	≥ 30 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 45 N/mm <sup>2</sup>
Wear Resistance (EN 12808-2)	≤ 250 mm <sup>3</sup>
Shrinkage (EN 12808-4)	≤ 1.5 mm/m
Water Absorption After 240 min (EN 12808-5)	≤ 0,1
Temperature Resistance	-20°C / +80°C

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknobituderz

## Hot Applied Bitumen Based Joint Filler Mastic



ASTM D 6690 (ASTM D 3405)

Public Pos. No: 04.615/3

**Product Description** It is a hot applied crack repair, grouting and insulation material containing polymer and modified asphalt. It has high cold flexibility and return. It's ready to be applied. It allows heavy traffic conditions shortly after application. It is suitable for cracks, grooves, joints on asphalt fields and concrete-asphalt joints.

### Areas of Usage

- On all kinds of asphalt surfaces, crack repair, joint filling, covering of cable channels, small floor
- Airports, runway-aprons and military areas.
- Due to its high elasticity and the ability to inhibit fungal growth, in all kinds of infrastructure without solvent.
- In joints between concrete and asphalt,
- In water structures such as dams, ponds exposed to water,
- Culverts and tunnels,
- Concrete retaining curtains
- On bridges and highways.

### Features and Benefits

- Thanks to its high elasticity, it can be used easily between concrete and joints,
- Thanks to high return, in places under heavy loads (no change in product form)
- It does not leave the adhesive area after it has been applied between joints,
- It has high temperature stability.
- Bonding on cemented and different surfaces.
- It is economical.
- It can be applied by self-leveling, troweling or jointing machine when it reaches 190°C.

### Application Instructions

Surface Quality: The surfaces should be clean, smooth, firm and dry, and weak parts should be removed from the surface. No application on moist surfaces.

Surface Preparation: Before application, joint should be thoroughly cleaned with wire brush, spiral or sandblasting, and dust should be removed from the joint by spraying air.

In order to provide the filling depth to be determined according to the joint width, a heat resistant material should be placed in the joint, preferably not adhering to the filling material. Linen or PP rope is suitable for this purpose. The diameter of the ropes should be 5-10% more than the width of the joint, the rope should be placed to the joint by pressing. Dried sand can be used where there is no frost hazard and where there is little joint movement. In these cases it is useful to place a paper tape on the base material to prevent sticking of the filler.

The molten material must be poured hot in the joint or crack. In full scale applications, the use of pumped systems equipped with heated steel hoses is recommended. It is recommended to apply TEKNOBITUDERZ to hot joints or cracks, especially in cold weather, to heat a surface with a LPG beaker or electric blower heater.

## Application Notes / Restrictions

- Heating must be done with equipment with temperature controlled equipment, which is absolutely mixed with oil film.
- The material poured into the melting vessel must be heated homogeneously.
- The mixture is heated to 180°C and these temperatures are maintained during application.
- Mixing should be done at low speed and the air contact with hot material should be minimum.
- The oil temperature in the shirt should not exceed 200°C.
- Higher oil temperatures can cause damage to the product due to local overheating.
- The molten product must be poured hot in the grate or crack.
- To obtain good adhesion, it is advisable to heat with a burner in cold weather.
- If the ground slope is 2% deeper, it is recommended to place barrier bars vertically at regular intervals to prevent flow.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER.
- 10 mm is not recommended for narrow joints.
- It is not used on dirty, greasy and wet surfaces. Cleaning of such joints before application is important to ensure a good joint.
- Despite the high carrying resistance, studded tires, ice chains, sharp heels can damage the shoes.
- The ambient temperature during application should not be lower than 10°C and the dew point
- During the application, do not add foreign substances such as solvent etc. into TEKNOBITUDERZ.
- Do not work with flammable work clothes because of hot application. Use a mask, gloves, glasses, work safety rules.

## Technical Data

General Information	
Chemical Structure	Special polymer modified bitumen mixture
Appearance	Black
Package	22,5 kg Bucket - 18 kg metal pail
Shelf Life	12 months in unopened package in dry environment
Density	1,20 ± (0.03) lt
Application Information	
Application Temperature	160°C - 170°C (must not exceed 200°C)
Pot Life	2 hours at 25°C
Opening Time for Traffic	1 day
Performance Information	
Hardness (ASTM D 2240)	A30 ± 10
Penetration (ASTM D 5329)	1,5 ± 0,5 mm
Asphalt Compatibility (ASTM D 5329)	Pass
Movement Flexibility	25%
Hot Yield (ASTM D 5329)	1,2 ± 0,5 mm

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknopoliderz 1K

Polyurethane Based Joint Filler Mastic, Sealant



**Product Description** Grouting mastic used indoor and outdoor areas, with high elasticity, cured with air damp, used in horizontal and vertical joints, polyurethane based, single component.

## Areas of Usage

- At highway and bridge joints
- In industrial field concrete joints,
- In joints of water channels and flumes,
- In construction joints narrower than 3.5 cm,
- Hospitals, residences, exterior windows in the shopping center, door edges,
- In construction joints of concrete, brick, wood, metal, aluminum and PVC building elements.
- In the parapet joints between the precast wall panels,
- It is resistant to weather conditions and water,
- It is resistant to UV rays.

## Features and Benefits

- A single-component, ready-to-use product,
- It can be painted on.
- It does not require a primer.
- It perfectly matches concrete, stone, metal, wood and other construction materials.
- Prefabricated creeks, gutters, reinforced concrete gutters and hidden places in the joints and joint details, ease of use due to water isolation.

## Application Instructions

Surface quality: The surfaces must be clean, smooth, firm and dry, and weak parts should be removed from the surface. It cannot be applied on moist surfaces.

Surface Preparation: Before application, joints should be thoroughly cleaned with wire brush, spiral or sandblasting, and dust should be removed from the joint by spraying air.

A masking tape is adhered to the upper parts of the joints so as not to come into the middle. This application must be done in order to prevent the mastic from being contaminated and to make it come out smoothly. It is used with cartridges / sausage guns / muzzleloader guns to push mastic to joint. After placing the TEKNOPOLIDERZ 1K into the sausage gun, the package's end opens. Adjust the tip of the cannula according to the joint gap to be applied. By pressing the trigger of the sausage gun, the polyurethane mastic is moved forward. 3-5 minutes after the mastic is hardened, the gloved index finger is immersed in soft soap. Then, on the drawn mastic, it is possible to move the surface smoothly by moving back and forth. After this process is complete, the masking tape is removed and discarded.

## Application Notes / Restrictions

- All mastic applications should be performed at temperatures above +5°C.
- Because moisture on the surface affects adherence negatively.
- The surfaces to be treated with TEKNOPOLIDERZ 1K must be absolutely dry, free from moisture and debris.

### Technical Data

<b>General Information</b>	
Structure	1K Polyurethane Based, Moisture Cured
Color	Grey or white
Density	1.15 ± 0,03 kg/lt (DIN 53479)
<b>Application Information</b>	
Application Temperature	Between +5°C and +50°C
Curing Speed	~ 2 mm/24 h (+23 °C / 50 % humidity)
Crusting Time	~ 90 minutes (+23°C / 50 % humidity)
Touch Dry Time	60 min.
Full Strength Time	24 hours (for 2 mm)
Consistency	Thixotropic
<b>Performance Information</b>	
Elongation (%)	~ 800% (+23 ° C / 50% Hum.) (ASTM D412) (DIN 53504)
Movement Capacity	% 25 (ASTM C719)
Rupture Resistance	~ 1,5 N/mm (+23°C / 50 humidity) (DIN 53515)
Shore A hardness: 80	25-30 (DIN 53505)
Return (%)	> 80% (+23°C / 50% humidity) (DIN EN ISO 7389 B)
Modulus of Elasticity	~ 0.5 N/mm <sup>2</sup> (100% elongation) (DIN EN ISO 8340)
Joint Interval	Minimum width = 10 mm Maximum width = 35 mm
Service Temperature	At least -30°C, at most +80°C

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknopoliderz 2K

Jet and Fuel Resistant, Polyurethane Based  
Joint Sealant



**Product Description** Jet fuel resistant, two component, self leveling, bitumen modified polyurethane based grouting and water insulation mastic.

## Areas of Usage

- With suitable primer, on concrete, as surface hardener, on asphalt, natural stone, mosaic and sheet metal surfaces,
- Due to chemical durability, it is especially ideal for areas subject to chemicals.
- Can be easily applied in electrical cable joints,
- Airports, ports and shipyards,
- On floors under the influence of oil and fuel,
- Refineries, Petrol stations, fuel centers,
- Military areas,
- Industrial areas, warehouses,
- Parking lots,
- In joints and cracks of asphalt and concrete roads, joints,
- TIX version is used in vertical applications.

## Features and Benefits

- It has high self-locating feature (sl-type).
- Resistant against de-icing chemicals
- Polyurethane Based.
- Solvent free.
- It is cold applied and resistant to jet fuels.
- It is a special product produced especially for the use of the airports in the joints of aprons and runways.
- It can be applied by self-leveling, manual pouring or jointing machine.
- Tix is used for vertical applications.
- It is resistant to oils and many chemical substances.
- Flexibility does not deteriorate at various air temperatures.

## Application Instructions

**Joint Preparation:** The joint width should not be less than 6 mm. The depth of grouting must be equal to the width up to 6 mm width. In joints 10-30 mm wide, the depth of fill should be half the width. At larger joints, the depth of fill should be at least half the width. Base materials (roving, glazing, etc.) should be used in the joint in order to adjust the depths.

**Surface Quality:** The surfaces should be clean, smooth, firm and dry, and weak parts should be removed from the surface. No application on moist surfaces.

**Surface Preparation:** Before application, joints should be thoroughly cleaned with wire brush, spiral or sandblasting, and dust should be removed from the joint by spraying air.

A masking tape is bonded to the upper parts of the joints so as not to come into the middle. This practice must be done in order to prevent the mastic from being contaminated and to make it come out smoothly. It is used with cartridges / sausage guns / muzzleloader guns to push mastic to joint. Teknopoliderz 2K is mixed with low speed mixer in three component package and placed in sausage gun. Adjust the tip of the cannula according to the joint gap to be applied. By pressing the trigger of the sausage gun, the polyurethane mastic is moved forward. 3-5 minutes after the mastic

is hardened, the gloved index finger is immersed in soft soap. Then, on the drawn mastic, it is possible to move the surface smoothly by moving back and forth. After this process is complete, the masking tape is removed and discarded.

Curing Phase: A and B components should be applied within 35 minutes after mixing. The product will dry completely within 24 hours, have mechanical strength within 48 hours, full strength within 7 days.

## Application Notes / Restrictions

- All mastic applications should be performed at temperatures above +5°C. Because the moisture on the surface, adversely affect adhesion.
- TEKNOBOND 110 should be applied as a primer to the grooves.
- Surfaces where TEKNOPOLIDERZ 2K to be applied must be absolutely dry, free from moisture and debris.
- Drying time, different surfaces and air temperatures can affect the use and drying times.
- Values are given for the desired temperature environment +20°C. The timer periods should be shortened under high temperatures and lengthened under lower temperatures.
- Sausage gun, soft soap, masking band, scissors or model knives can be used in practice.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +50°C), rain and frost.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER.

## Technical Data

General Information	
Chemical Structure	Polyurethane Based
Color	Black
Package	Set of 10 kg
Shelf life	12 months in unopened package in dry environment
Density	1,37 ± 0,3 (kg / l)
Application Information	
Pot Life	35-45 (min)
Primer Drying Time	1 hour
Lining	TEKNOBOND 110
Application Temperature	(+5) - (+50°C)
Performance Information	
Breaking Strength	1.50 N/mm <sup>2</sup>
Hardness (Shore A)	20-35
Elongation	400 - 600 (ASTMD412)
Return	98% (TS 5926 EN 14188-2)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknopoliderz 3K Tix

Jet and Fuel Resistant, Polyurethane Based  
Thixotropic Joint Sealant



**Product Description** Jet fuel resistant, three component, suitable for pistol consistency, bitumen modified polyurethane based joint filler and waterproofing mastic.

**Areas of Usage**

- With suitable primer, concrete, surface hardener, asphalt, natural stone, mosaic and sheet surfaces,
- Due to chemical durability, it is especially ideal for areas subject to chemicals.
- Can be easily applied in electrical cable joints.
- Airports, ports and shipyards,
- On floors under the influence of oil and fuel,
- Refineries, Petrol stations, fuel centers,
- Industrial areas, warehouses,
- In joints and cracks of asphalt and concrete roads, joints,
- It is used in vertical applications.

**Features and Benefits**

- It can be used in vertical applications since it does not sag.
- Resistant against de-icing chemicals.
- Polyurethane Based.
- Solvent-free
- It is cold applied and resistant to jet fuels.
- It is a special product produced especially for the use of the airports in the joints of aprons and runways.
- There is also a self-spreading type.
- It is resistant to oils and many chemical substances.
- Flexibility does not deteriorate at various air temperatures.

**Application Instructions**

Surface Quality: The surfaces should be clean, smooth, firm and dry, and weak parts should be removed from the surface. It's not applied on moist surfaces.

Surface Preparation: Before application, joints should be thoroughly cleaned with wire brush, spiral or sandblasting, and dust should be removed from the joint by spraying air.

A masking tape is bonded to the upper parts of the joints so as not to come into the middle. This practice must be done in order to prevent the mastic from being contaminated and to make it come out smoothly. It is used with cartridges / sausage guns / muzzleloader guns to push mastic to joint. Teknopoliderz is mixed with low speed mixer in three component package and placed in sausage gun. Adjust the tip of the cannula according to the joint gap to be applied. By pressing the trigger of the sausage gun, the polyurethane mastic is moved forward. 3-5 minutes after the mastic is hardened, the gloved index finger is immersed in soft soap. Then, on the drawn mastic, it is possible to move the surface smoothly by moving back and forth. After this process is complete, the masking tape is removed and discarded.

Curing Phase: A, B and C components should be applied within 35 minutes after mixing. The product will dry completely within 24 hours, have mechanical strength within 48 hours, full strength within 7 days.

## Application Notes / Restrictions

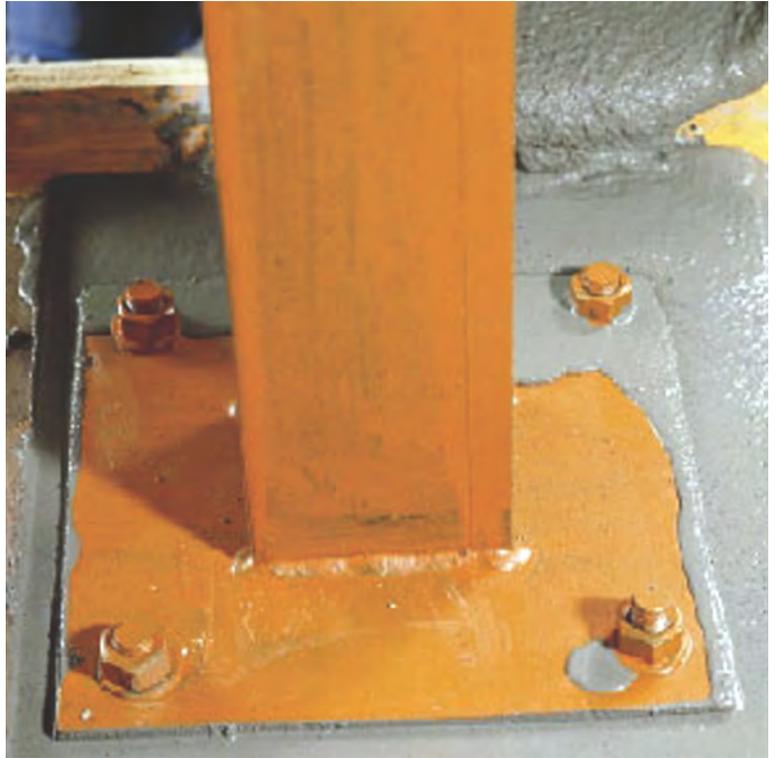
- All mastic applications should be done at temperatures above +5°C. Because moisture on the surface affects adherence negatively.
- For mineral surfaces, TEKNOBOND 110 should be applied as a primer on the grooves of the joints.
- The surfaces where TEKNOPOLIDERZ 3K Tix to be applied must be absolutely dry, free from moisture and debris.
- Drying time, different surfaces and air temperatures can affect the use and drying times.
- Values are given for the desired temperature environment +20°C. High temperatures reduce time, low temperatures increase time.
- Sausage gun, soft soap, masking band, scissors or model knives can be used in the application.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER.

## Technical Data

General Information	
Chemical Structure	Polyurethane Based
Appearance / Color	Black
Storage Conditions / Shelf Life	12 months in unopened package in dry environment
Package	Set of 10 kg
Density	1,35 ± 0,3 (kg / l)
Application Information	
Pot Life	35 - 45 (min)
Primer Drying Time	~1 hour
Application Temperature	(+5) - (+40°C)
Performance Information	
Breaking Strength	1.50 N/mm <sup>2</sup>
Hardness (Shore A)	20-35
Elongation	400 - 600 (ASTMD412)
Return	98% (IS 5926 EN 14188-2)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# GROUTS and REPAIR MORTARS



# TeknogROUT Rapid

Very Fast Setting Non-shrink Flowable Grout



CE TS EN 1504 – 3, R4

Public Pos. No: 04.613/3C

**Product Description** It is a cement based, single component, non-shrink, high strength, flowable grout with fast strength.

**Areas of Usage**

- It used in elevating manhole covers and manholes,
- In the installation of curb and paving stones,
- To fix poles,
- Repair of concrete floors exposed to vehicle and pedestrian traffic.

**Features and Benefits**

- Thanks to its fluid feature, it provides ease of application.
- It gains fast strength. It can be opened to traffic after 1 hour.
- The area of utilization is wide because it does not shrink.
- It does not decompose and cause water formation.
- Strength and abrasion resistance are high.
- Since it has very high adherence, it works monolithic with old concrete.
- It is resistant to various chemicals, oils and acids.
- It is not affected by moisture because it does not contain metal.
- It is resistant to freezing and thawing.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOGROUT RAPID should be applied 3-4 days later.

Surface Preparation: Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water droplets or drops.

Mixing: 3.5 - 4.0 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOGROUT RAPID in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time must be minimum 1 min, the mortar obtained at the end of the process is quickly placed. After the material has entered the reaction, it should not be mixed again with water. The prepared mixture should be placed in 2.5 minutes depending on the air temperature and the amount of water. TEKNOGROUT RAPID should be poured from one side in order to fill under the gaps surrounded by four sides and covered. So it discharges air and prevents gap formation. It can be pushed from one side with a long piece of iron during casting to speed up flow.

The thickness of the casting should be 10-60 mm as a layer thickness at a time. It is advisable to carry out a preliminary test if small diameter anchors are to be used.

For applications thicker than 60 mm, it is possible to add aggregates of 5-12 mm in diameter at the rate of 30% of the material.

Aggregate addition is done in two ways;

- The aggregate is added into the prepared mortar. This process is continued until a homogenous mixture is obtained.
- Aggregate is poured or spread on the floor to be applied. The mixture is then poured onto the prepared TEKNOGROUT RAPID. The self-leveling mortar also allows the possibility of wrapping around the aggregate to obtain a high-strength concrete.

## Application Notes / Restrictions

- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot mixture water should be used in cold conditions.
- In hot environments, cold mixing water should be used.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- The prepared mixture should be placed in 5 minutes depending on the air temperature and the amount of water.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35 °C), rain and frost. TEKNOGROUT RAPID should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Grain Size	D <sub>max</sub> : 3 mm
Application Information	
Temperature of Application Floor	(+5°C) - (+35°C)
Mixture Ratio	3 - 4 lt water / 25 kg powder
Application Thickness	10 mm - 40 mm
Workability Time	Max. 2,5 min
Setting Starting	~5 min.
Mortar Density	2,30 ±0,1 kg/lt
Performance Information	
Pressure Resistance	1 hour: > 16 N/mm <sup>2</sup> 24 hours: > 35 N/mm <sup>2</sup> 28 days: > 65 N/mm <sup>2</sup>

## Consumption Table

TeknogROUT Rapid	Mixture Density (gr / lt)	10 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~2,30	~21	3-4

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# TeknogROUT Ex

## Fast Setting Non-shrink Flowable Grout



CE TS EN 1504 – 3, R4

Public Pos. No: 04.613/3C

### Product Description

It is a cement based, one component, non-shrink, self levelling, flowable grouting mortar with high adherence and strength.

### Areas of Usage

- It's used in site concrete, railway construction,
- In repairing aircraft and helicopter tracks,
- In raising manhole covers and manholes,
- To fix steel columns and poles,
- Under all kinds of industrial machine bearings,
- In engineering structures such as metro, highways, dams,
- For repair of sections where reinforced concrete curtains are joined to the beam, in strengthening projects,
- To combine prefabricated elements.

### Features and Benefits

- It is easy to use,
- It gains fast strength, loading after 1 - 2 hours is possible.
- It does not shrink, it shows high fluidity.
- It is not affected by moisture because it does not contain metal.
- It's impermeable.
- It does not contain solvent, asbestos.
- It is resistant to freezing and thawing.
- It is resistant against various chemicals.
- It sticks well to concrete, doesn't contain chlorine.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOGROUT EX should be applied 3-4 days later.

**Surface Preparation:** Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water droplets or drops.

**Mixing:** 3 - 4 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOGROUT EX in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 min. and mixed again until it becomes homogenous for 2 min. After the material has entered the reaction, it should not be mixed again with water.

The prepared mixture should be placed in 5-20 minutes depending on the air temperature and the amount of water. TEKNOGROUT EX should be poured from one side in order to fill under the gaps surrounded by four sides and covered. So it discharges air and prevents gaps. It can be pushed from one side with a long piece of iron during casting to speed up flow.

The thickness of the casting should be 10-60 mm as a layer thickness at a time. It is advisable to carry out a preliminary test if small diameter anchors are to be used.

- For applications thicker than 60 mm, it is possible to add aggregates of 5-12 mm in diameter at the rate of 30% of the material.
- Aggregate addition is done in two ways;
- The aggregate is added into the prepared mortar. When a homogenous mixture is obtained, this process is continued for 3-5 minutes.
- Aggregate is poured or spread on the floor to be applied. The mixture is then poured onto the prepared TEKNOGROUT EX. The self-leveling mortar also allows the possibility of wrapping around the aggregate to obtain a high-strength concrete.

## Application Notes / Restrictions

- For outdoor applications, the first 2 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot water should be used in cold conditions.
- In hot environments, iced mixture water should be used.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Grain Size	D <sub>max</sub> : 3 mm
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	3 - 4 lt water/25 kg powder
Workability Time	Min. 30 min.
Mortar Density	2,30 ±0,1 kg/lt
Time to Put into Service	Approximately 2 hours
Application Thickness	At least 10 mm / Maximum 60 mm
Performance Information	
Flexural Strength (28 days)	≥ 9.0 N/mm <sup>2</sup>
Pressure Resistance (28 days)	≥ 60,0 N/mm <sup>2</sup> (TS EN 196-1)
Adhesion Strength (28 days) (TS EN 1542)	≥ 2.0 N/mm <sup>2</sup>
Capillary Water Absorption (TS EN 13057) 28 days	≤ 0,5 kg/(m <sup>2</sup> .h <sup>0-5</sup> )

## Consumption Table

TeknogROUT EX	Mixture Density (gr / lt)	10 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	2,30 ± 0,1	~21	3,5-4,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# TeknogROUT 350

Normal Setting, Non-shrink Flowable Grout



CE TS EN 1504 – 3, R4

Public Pos. No: 04.613/3C

**Product Description** It is a cement based, one component, non-shrink, self-levelling, flowable, mortar with high adherence and strength.

## Areas of Usage

- Indoor and outdoor applications,
- To fix steel columns and poles,
- Under all kinds of industrial machine bearings,
- In engineering structures such as metro, highways, dams,
- For repair of sections where reinforced concrete curtains are joined to the beam, in strengthening projects,
- To combine prefabricated elements.

## Features and Benefits

- It is an easy to use material, made ready just by adding water.
- It does not shrink, it shows high fluidity.
- No decomposition and water formation.
- It can be pumped or poured.
- It does not contain solvent, asbestos.
- It is resistant to freezing and thawing.
- Application thickness is 10-75 mm
- It sticks well to concrete, doesn't contain chlorine.

## Application Instructions

Surface Quality: Concrete and metal surfaces must be clean, smooth, solid, free from cement slurry and weakened parts, any antiadhesive substance such as dust, oil, ice, dirt, rust, mold oil, detergent and waste. Pull off strength of concrete must be above 1 MPa.

All molds must have sufficient strength, TEKNOIL mold oil must be applied and must be insulated to prevent leaks. Insulation can be made by using TEKNOPOLİDERZ 1K under, around and at the junction points of the mold. Whether the mold is leakproof can be controlled by pre-wetting water. During grouting, a suitable feed hopper / funnel should be made on one side of the mold in order to maintain a constant grouting height of 150 - 200 mm.

Surface Preparation: High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, roughening, sandblasting. Absorbent surfaces must be pre-wetted, but there should be no water accumulations.

Mixing: 25 kg of powder material is poured onto 3.0 - 4.0 lt of water. These rates given can vary depending on the weather temperature. The mortar is mixed with a 400 - 600 rpm mixer until a homogeneous and a consistency without lumps is obtained for about 3 min. After 2 min. of rest, the material is ready to be used again for 30 seconds.

The prepared mixture should be placed in 30-40 min. depending on the air temperature and the amount of water. TEKNOGROUT 350 should be poured from one side in order to fill under the gaps surrounded by four sides and covered. So it discharges air and prevents gaps. It can be pushed from one side with a long piece of iron during casting to speed up flow.

The thickness of the casting should be 10-75 mm as a layer thickness at a time. It is advisable to carry out a preliminary test if small diameter anchors are to be used.

For applications thicker than 75 mm, it is possible to add aggregates of 5-12 mm in diameter at the rate of 30% of the material.

Aggregate addition is done in two ways;

- The aggregate is added into the prepared mortar. When a homogenous mixture is obtained, this process is continued for 3-5 minutes.
- Aggregate is poured or spread on the floor to be applied. The mixture is then poured onto the prepared TEKNOGROUT 350. The self-leveling mortar also allows the possibility of wrapping around the aggregate to obtain a high-strength concrete.

## Application Notes / Restrictions

- For outdoor applications, the first 3 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot water should be used in cold conditions.
- In hot environments, cold mixing water should be used.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- Do not use for patch repair work
- Do not use a vibrator
- Do not apply in cases with frost risk
- Perform casting or pumping only from one direction
- For best results, it is recommended that the material be conditioned between +15°C and +25°C before use.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35 °C), rain and frost.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Grain Size	D <sub>max</sub> : 3 mm
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	3,0 - 4,0 lt water/25 kg powder
Workability Time	Minimum 30 min.
Mortar Density	2,3 ±0,1 kg/lt
Time to put into Service	~24 hours
Application Thickness	At least 10 mm / Maximum 75 mm
Performance Information	
Flexural Strength (28 days)	≥ 9.0 N/mm <sup>2</sup>
Pressure Resistance (28 days)	≥ 60,0 N/mm <sup>2</sup> (TS EN 196-1)
Adhesion Strength (28 days) (TS EN 1542)	≥2.0 N/mm <sup>2</sup>
Capillary Water Absorption (28 days) (TS EN 13057)	≤ 0,5 kg/(m <sup>2</sup> .h <sup>0-5</sup> )

## Consumption Table

<b>TeknogROUT 350</b>	<b>Mixture Density (gr / lt)</b>	<b>Powder consumption per 1 liter mortar (kg)</b>	<b>Mixture Water Amount (lt)</b>
25 kg kraft bag	2,3±0,1	~2,00	3,0 – 4,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 200

## Cement Based Thixotropic Fine Repair Mortar



Public Pos. No: 04.613/3A

CE TS EN 1504 - 3 R2

**Product Description** It is a cement based, single component, polymer modified, increased adherence fine repair mortar.

### Areas of Usage

- It's used in construction of all kinds of concrete after the mold is taken to repair the concrete,
- In mineral surface repair,
- In all kinds of industrial reinforced concrete structures,
- In engineering structures such as metro, highways, dams,
- In repair, repair and reinforced concrete projects,
- In filling air bubbles and gaps,
- On the surfaces with thick repair mortar,
- In the repair of prefabricated elements.

### Features and Benefits

- Easy to be applied.
- Suitable for spraying and trowelling.
- It is resistant to freezing and thawing.
- It is not corrosive or poisonous.
- It is used to obtain a smoother surface in thin repairs.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts on the surface should be removed.

**Surface Preparation:** Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water accumulations. When adherence primer is required, TEKNO AD is applied by brush and TEKNOREP 200 repair mortar is applied on the surface before drying.

**Mixing:** 3 - 4 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 200 in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be at least 5 minutes, the mortar obtained at the end of the process should be rested for 3 min. and mixed again until it becomes homogenous for 2 min. After the material has entered the reaction, it should not be mixed again with water.

### Application Notes / Restrictions

- For outdoor applications, the first 3 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Do not add too much water as recommended.
- Do not use the material below the minimum permissible temperature to complete the setting. Low temperatures will slow down setting and high temperatures will speed up setting. The workability time will also vary depending on the temperatures.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.

- If necessary, clover is applied to ensure surface smoothness. Applications with wall thickness over 30 mm should be done in coats.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Color	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	4 - 5 lt water/25 kg powder
Pot Life	Min. 45 min.
Grain Size	D <sub>max</sub> :0,007 mm
Time to Put into Service	1 day
Application Thickness	Max. 30 mm (single coat)
Performance Information	
Flexural Strength (EN 12808-3)	≥ 7,0 N/mm <sup>2</sup>
Concrete Adhesion Strength (EN 1542)	≥ 1,0 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 25 N/mm <sup>2</sup>
Limited Shrinkage (EN 12617-4)	≥ 0,8 N/mm <sup>2</sup>
Capillary Water Absorption Value (EN 13057)	≤ 0,5 kg/m <sup>2</sup> .h <sup>0,5</sup>
Temperature Resistance	(-30°C) - (+80°C)
Hazardous Substances (EN 12004)	See the safety data sheet.
Fire Response	A1

## Consumption Table

Teknorep 200	Mixture Density (kg / lt)	1 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~2,05	~1,9	4-5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 300

Cement Based Thixotropic, Repair Mortar  
for Thick Application



CE TS EN 1504 - 3 R4

Public Pos. No: 04.613/3B

**Product Description** Cement based, single component, fiber reinforced, polymer modified, thick repair mortar.

## Areas of Usage

- It's used in the filling of shift rod spaces (rod holes / Tie-rod holes) and core spaces in reinforced concrete structures,
- It's used in construction of all kinds of concrete after the mold is taken to repair the concrete, in light and medium weight traffic loads, special coatings in future floors and surface repairs.
- In all kinds of industrial reinforced concrete structures,
- In engineering structures such as metro, highways, dams,
- In repair, repair and reinforced concrete projects,
- In the repair of prefabricated elements.
- It is used for repairing surface defects of 10 - 40 mm thickness in one time.

## Features and Benefits

- Easy to be applied.
- Used in structural repairs.
- It is not affected by moisture because it does not contain metal.
- It has high adhesion strength.
- It is resistant to sulphate and chlorine.
- It does not cause corrosion.
- It is resistant to freezing and thawing.
- It is suitable for vertical and overhead applications.
- It does not shrink.
- It is resistant to carbonation.
- It has high pressure resistance.
- It's impermeable.
- Because it does not contain chlorine, it can be used in contact with reinforcement.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts on the surface should be removed.

**Surface Preparation:** Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water droplets or drops.

**Mixing:** 3,5 - 4,5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 300 in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be at least 5 minutes, the mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes. After the material has entered the reaction, it should not be mixed again with water.

TEKNOREP 300 is applied with a trowel after Tekno AD is used as primer to fuse old concrete and new concrete.

## Application Notes / Restrictions

- For outdoor applications, the first 3 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- The prepared mixture should be placed in 5 min. depending on the air temperature and the amount of water.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.
- The prepared mortar is applied to the surface with a trowel. If necessary, clover is applied to ensure surface smoothness. Applications with wall thickness over 40 mm should be done in coats.
- In severe wind and severe environmental conditions, TEKNOKÜR 100 can be applied as curing material in order to prevent cracking of TEKNOREP 300.

## Technical Data

General Information	
Color	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	3.5 - 4.5 lt water / 25 kg powder
Pot Life	Min. 30 min.
Time to Put into Service	1 day
Application Thickness	10-40 mm (Single coat)
Performance Information	
Flexural Strength (EN 12808-3)	≥ 7,0 N/mm <sup>2</sup>
Concrete Adhesion Strength (EN 1542)	≥ 2,0 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 60 N/mm <sup>2</sup>
Modulus of Elasticity (EN 13412)	> 20 Gpa
Limited Shrinkage (EN 12617-4)	≥ 2 N/mm <sup>2</sup>
Capillary Water Absorption Value (EN 13057)	≤ 0,5 kg/m <sup>2</sup> h <sup>0,6</sup>
Limited Shrinkage / Expansion (EN 12617-4)	≥ 2 N/mm <sup>2</sup>
Service Temperature	(-30°C) - (+400°C)
Hazardous Substances (EN 12004)	See the safety data sheet.
Fire Response	A1

## Consumption Table

<b>Teknorep 300</b>	<b>Mixture Density (kg / lt)</b>	<b>1 mm/ 1m<sup>2</sup> Powder Consumption (kg)</b>	<b>Mixture Water Amount (lt)</b>
25 kg kraft bag	~2,1	1,9	3,5 – 4,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 200 Ex

Cement Based Thixotropic, Non-shrink Fine Repair Mortar



CE TS EN 1504 - 3 R3

Public Pos. No: 04.613/3A

## Product Description

Cement based, one component structural fine repair mortar with no shrinkage, fiber reinforced, polymer additive, increased strength and flexibility

## Areas of Usage

- It's used in construction of all kinds of concrete after the mold is taken to repair the concrete,
- In all kinds of industrial reinforced concrete structures,
- In engineering structures such as metro, highways, dams,
- In repair, repair and reinforced concrete projects,
- In filling air bubbles and gaps,
- On the surfaces with thick repair mortar,
- In the columns, beams and rod holes,
- In the repair of prefabricated elements.

## Features and Benefits

- Easy to be applied.
- Benefits Suitable for spraying and trowelling.
- It is resistant to freezing and thawing.
- It is not corrosive or poisonous.
- It is used to obtain a smoother surface in thin repairs.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts on the surface should be removed.

**Surface Preparation:** Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water droplets or drops.

When adherence primer is required, TEKNO AD is applied by brush and TEKNOREP 200 EX repair mortar is applied on the surface before drying.

**Mixing:** 3 - 4 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 200 EX in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 min. and mixed again until it becomes homogenous for 2 min. After the material has entered the reaction, it should not be mixed again with water.

## Application Notes / Restrictions

- For outdoor applications, the first 1 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot water should be used in cold conditions. In hot environments, iced mixture water should be used.
- Do not add too much water as recommended.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.

- The prepared mortar is applied to the surface with a trowel. If necessary, clover is applied to ensure surface smoothness. Applications with wall thickness over 30 mm should be done in coats.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	4 - 5 lt water/25 kg powder
Pot Life	Min. 20 min.
Time to Put into Service	1 day
Application Thickness	Max. 30 mm (single coat)
Performance Information	
Flexural Strength (EN 12808-3)	≥ 8,0 N/mm <sup>2</sup>
Concrete Adhesion Strength (EN 1542)	≥ 1,0 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 35,0 N/mm <sup>2</sup>
Limited Shrinkage (EN 12617-4)	≥ 1,5 N/mm <sup>2</sup>
Capillary Water Absorption Value (EN 13057)	≤ 0,5 kg/m <sup>2</sup> h <sup>0,5</sup>
Hazardous Substances (EN 12004)	See the safety data sheet.
Fire Response	A1

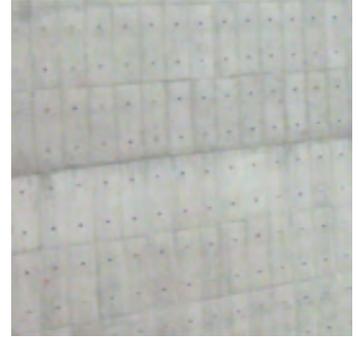
## Consumption Table

Teknorep 200 Ex	Mixture Density (kg / lt)	1 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~2,1	~1,8	4-5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 300 Ex

Cement Based Thixotropic, Non-shrink Repair Mortar  
for Thick Application



CE TS EN 1504 - 3 R4

Public Pos. No: 04.613/3B

**Product Description** Cement based, one component structural, fast, non-shrink and thick repair mortar.

## Areas of Usage

- It's used in the filling of shift rod spaces (rod holes / Tie-rod holes) and core spaces in reinforced concrete structures,
- It's used in construction of all kinds of concrete after the mold is taken to repair the concrete,
- In light and medium weight traffic loads, special coatings in future floors and surface repairs.
- In all kinds of industrial reinforced concrete structures,
- In engineering structures such as metro, highways, dams,
- In repair, repair and reinforced concrete projects,
- In the repair of prefabricated elements.
- It is used for repairing surface defects of 10 - 40 mm thickness in one time.

## Features and Benefits

- Easy to be applied.
- Used in structural repairs.
- It is not affected by moisture because it does not contain metal.
- It has high adhesion strength.
- It is resistant to sulphate and chlorine.
- It does not cause corrosion.
- It is resistant to freezing and thawing.
- It is suitable for vertical and overhead applications.
- It does not shrink.
- It is resistant to carbonation.
- It has high pressure resistance.
- It's impermeable.
- Because it does not contain chlorine, it can be used in contact with reinforcement.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts on the surface should be removed.

**Surface Preparation:** Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water droplets or drops.

**Mixing:** 3,5 - 4,5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 300 EX in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes. After the material has entered the reaction, it should not be mixed again with water.

## Application Notes / Restrictions

- For outdoor applications, the first 3 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot water should be used in cold conditions.
- In hot environments, iced mixture water should be used.
- It should not be used in contact with liquids with pH value lower than 5,5. Q On large surfaces, it should not be used as a final floor concrete floor covering.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- The prepared mortar is applied to the surface with a trowel. If necessary, clover is applied to ensure surface smoothness. Applications with wall thickness over 40 mm should be done in coats.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.
- TEKNOREP 300 EX is applied with a trowel after TEKNO AD is used as primer to fuse old concrete and new concrete.
- In severe wind and severe environmental conditions, TEKNOKÜR 100 can be applied as curing material in order to prevent cracking of TEKNOREP 300 EX.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	3.5 - 4.5 lt water / 25 kg powder
Pot Life	Min. 20 dk
Time to Put into Service	1 day
Application Thickness	10 - 40 mm (One coat)
Performance Information	
Flexural Strength (EN 12808-3)	≥ 10 N/mm <sup>2</sup>
Concrete Adhesion Strength (EN 1542)	≥ 2,0 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 60 N/mm <sup>2</sup>
Modulus of Elasticity (EN 13412)	≥ 20 Gpa
Limited Shrinkage (EN 12617-4)	≥ 2 N/mm <sup>2</sup>
Capillary Water Absorption Value (EN 13057)	≤ 0,5 kg/m <sup>2</sup> h <sup>0,5</sup>
Limited Shrinkage / Expansion (EN 12617-4)	≥ 2 N/mm <sup>2</sup>
Chloride Content	< %0,05
Hazardous Substances (EN 12004)	See the safety data sheet.
Fire Response	A1

**Consumption Table**

<b>Teknorep 300 Ex</b>	<b>Mixture Density (kg / lt)</b>	<b>1 mm/ 1m<sup>2</sup> Powder Consumption (kg)</b>	<b>Mixture Water Amount (lt)</b>
25 kg kraft bag	~2,06	1,8	3,5 – 4,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknorep 400

## Flowable Jointing Mortar



CE TS EN 1504 – 3, R2

**Product Description** It is cement based, single component, fine, non-shrink, flowable jointing mortar.

### Areas of Usage

- It's used to ensure that the parquet, granite and cubic stones are secured by filling the space between them,
- In filling the pits in the small diameter chamber,
- In the joints of the cobblestone pavements and the veneer materials,
- In joints of city furniture and prefabricated elements.

### Features and Benefits

- It is an easy to use material, made ready just by adding water.
- It can be used everywhere because there is very little shrinkage.
- Since it has very high adherence, it works monolithic with old concrete.
- Strength and abrasion resistance are high.
- It is resistant to oils and some chemicals.
- It is resistant to freeze-thaw cycles.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Make sure that the surface of the stone to be cast is at the level of the stone and that the joints are in the desired fit.

**Surface Preparation:** Absorbent surfaces must be pre-wetted, but there should be no water accumulations. It would be more convenient to protect decorative and absorbent stone surfaces using TEKNOLATEX or TEKNOCILA before casting.

**Mixing:** 5,0-6,0lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 400 in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 min and mixed again until it becomes homogenous for 2 min. After the material has entered the reaction, it should not be mixed again with water.

### Application Notes / Restrictions

- For outdoor applications, the first 3 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot mixture water should be used under extreme cold conditions.
- Cold mixture water should be used under extreme hot conditions.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

- The prepared mortar is slowly poured into the joints. As another method, it can be done by pouring mortar and pulling it with a rust. The mortar spreads homogeneously to all sides because it is fluid. The better this process is, the harder it will be to spoil the joints and damage the floor covering (cobblestones, borders, cube stones, etc.).

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	5 - 6 lt water/25 kg powder
Workability Time	Min. 30 min.
Mortar Density	2,07 ±0,1 kg/lt
Time to Taking into Service	~24 hours
Application Thickness	At least 3 mm / Maximum 18 mm
Performance Information	
Flexural Strength (28 days)	≥ 5.0 N/mm <sup>2</sup>
Pressure Resistance (28 days)	≥ 40 N/mm <sup>2</sup> (TS EN 196-1)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknorep 450

Cement Based, Fire Resistant Mortar



CE TS EN 1504 – 3, R1

## Product Description

It is a special mixture containing hydraulic binders, low weighted aggregates and special additives, which can be used on inner and outer walls due to its fire resistant and thermo-acoustic insulation properties.

## Areas of Usage

- Hospitals, security buildings,
- In sections where fire resistance is required,
- In sections of the cable ducts,
- To prevent the fire on the shafts of dwellings, shopping malls, etc.

## Features and Benefits

- It has fire protection properties. It has been verified that it protects any surface (brick, concrete, iron, wood, etc.) from fire.
- If a thick plaster is required, it can be applied with a layered plaster process.
- It can be painted on.
- When applied in the appropriate thickness; while allowing wall transparency on the inner and outer surfaces, increases thermal and acoustic isolation.
- It prevents mold formation on inner surfaces.
- After applying and drying, it is easily discharges moisture from within the body.

## Application Instructions

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts on the surface should be removed.

Surface Preparation: Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water accumulations. Mixing: 4,5 - 5,5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNOREP 450 in 25 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be at least 5 minutes, the mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes. After the material has entered the reaction, it should not be mixed again with water.

## Application Notes / Restrictions

- For outdoor applications, the first 3 hours of sunshine should be protected from rain and frost.
- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot water should be used in cold conditions.
- In hot environments, cold mixing water should be used.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- Prepared mortar is applied by trowel, if desired, feather application is made to make the application smoother.

- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Light grey
Shelf Life	12 months in unopened package in dry environment
Package	8 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	4.5 - 5.5 lt water / 8 kg powder
Pot Life	Min. 30 min.
Time to Put into Service	1 day
Performance Information	
Flexural Strength (EN 12808-3)	≥ 1,5 N/mm <sup>2</sup>
Compressive Strength (EN 12808-3)	≥ 9 N/mm <sup>2</sup>
Temperature Resistance	+900°C
Hazardous Substances (EN 12004)	See the safety data sheet.
Fire Response	A1

## Consumption Table

Teknorep 450	Mixture Density (kg / lt)	1 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
8 kg kraft bag	~1,325	0,83	4,5 – 5,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknobond 800

## Three-Component Epoxy Grout



Public Pos. No: 04.613/8e

### Product Description

It is a solvent-free, 3-component grout consisting of a combination of special graded aggregates and high-strength epoxy resins. It is a self-levelling, flowable epoxy mortar that can be applied on concrete, stone, mortar, steel, aluminum, asbestos cement, polyester, wood and epoxy based materials.

### Areas of Usage

- In anchoring works,
- Under crane rail installation,
- On bridge supports,
- In repairing aircraft and helicopter tracks,
- To fix steel columns and poles,
- On the basis of all kinds of industrial machines, under the bearings,
- In engineering structures such as metro, highways, dams,
- For repair of sections where reinforced concrete curtains are joined to the beam, in strengthening projects,
- For installation of prefabricated elements.

### Features and Benefits

- It does not shrink, it shows high fluidity.
- Resistant to oils and acids
- Non-toxic.
- It's waterproof
- It is resistant to freezing and thawing.
- It is resistant against various chemicals.

### Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The concrete floor should not have water accumulation, humidity and moisture. It should be a dry floor and the concrete surface moisture should be below 4%. High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, roughening, sandblasting.

Pour component B into component A. Mix with a low speed electric stirrer until the mixture reaches a completely homogeneous appearance. Then pour the mixture into a suitable container and slowly and continuously add component C, continue mixing for at least 3 minutes until a homogeneous and smooth mortar is obtained.

The prepared mixture should be placed in 5 minutes depending on the air temperature and the amount of water. TEKNOBOND 800 should be poured from one side in order to fill under the gaps surrounded by four sides and covered. So it discharges air and prevents gaps.

## Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and
- appropriate glasses and mask should be used.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +30°C), rain and frost.
- Hands and areas of contact with the skin and hands should be cleaned with water before the product is completely cured and hardened.
- In case of contact with eyes, wash eyes with warm water and detergent then a doctor should be consulted.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. After the product is hardened, it should be cleaned by mechanical methods.
- It should not be forgotten that the strength and adhesion values of the product will change if the mixing ratios are changed.

## Technical Data

General Information	
Appearance/Color	A Component, yellowish, liquid B Component, light yellow, liquid C Component, grey powder Mixture, concrete grey fluid liquid
Mixture Ratio	2 Unit A, 1 Unit B, 12 Unit C (by weight)
Application Thickness	Between 10-50 mm
Consumption	2,1 kg/m <sup>2</sup> (for 1 mm thickness)
Shelf Life	12 months
Package	20 kg set
Application Information	
Pot Life	30 minutes
Application Temperature	(+5°C) - (+30°C)
Density (kg/lt)	2,05 ± 0,05
Opening to Traffic	24 Hours
Full Strength	7 Days
Performance Information	
Pressure Resistance	80 N/mm <sup>2</sup> (TS EN 12190)
Flexural Strength	32 N/mm <sup>2</sup> (TS EN 12190)
Concrete Adhesion Strength	≥ 4 N/mm <sup>2</sup> (Rupture from Concrete) (TS EN 4624)
Tensile Strength (Steel)	≥ 3,00 N/mm <sup>2</sup>

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknobond 850

Three-Component Epoxy Grout  
(with high impact resistance)



Public Pos. No: 04.613/8e

## Product Description

It consisting of a combination of special graded aggregates and high-strength epoxy resins. It is a self-levelling, flowable epoxy mortar that can be applied on concrete, stone, mortar, steel, aluminum, asbestos cement, polyester, wood and epoxy based materials.

## Areas of Usage

- It's used in industrial floors,
- In curb stones,
- On bridge supports,
- In repairing aircraft and helicopter tracks,
- In joint repair of roads,
- In engineering structures such as metro, highways, dams,
- Reinforcement projects,
- For installation of prefabricated elements.

## Features and Benefits

- It does not shrink, it shows high fluidity.
- Resistant to oils and acids
- Solvent free.
- It's waterproof.
- It is resistant to freezing and thawing.
- It is resistant against various chemicals.

## Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The concrete floor should not have water accumulation, humidity and humidity. It should be a dry floor and the concrete surface moisture should be below 4%. High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, roughening, sandblasting.

Pour component B into component A. Mix with a low speed electric stirrer until the mixture reaches a completely homogeneous appearance. Then pour the mixture into a suitable container and slowly and continuously add component C, continue mixing for at least 3 minutes until a homogeneous and smooth mortar is obtained.

The prepared mixture should be placed in 5 minutes depending on the air temperature and the amount of water. TEKNOBOND 850 should be poured from one side in order to fill under the gaps surrounded by four sides and covered. So it discharges air and prevents gaps.

## Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and mask should be used.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +30°C), rain and frost.
- Hands and areas of contact with the skin and hands should be cleaned with water before the product is completely cured and hardened.
- In case of contact with eyes, wash eyes with warm water and detergent then a doctor should be consulted.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. After the product is hardened, it should be cleaned by mechanical methods.
- It should not be forgotten that the strength and adhesion values of the product will change if the mixing ratios are changed.

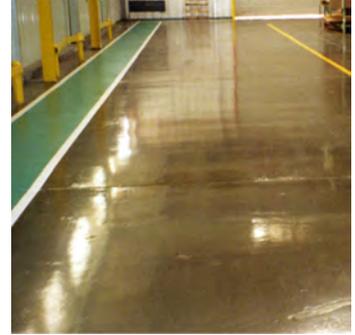
## Technical Data

General Information	
Appearance/Color	A Component, yellowish, liquid B Component, light yellow, liquid C Component, grey, powder Mixture, concrete gray, liquid
Mixture Ratio	2 Unit A, 1 Unit B, 15 Unit C (by weight)
Application Thickness	Between 10-50 mm
Consumption	2,3 kg/m <sup>2</sup> (for 1 mm thickness)
Shelf Life	12 months
Package	30 kg set
Application Information	
Pot Life	30 minutes
Application Temperature	(+5°C) - (+30°C)
Density (kg/ltr)	2,25 ± 0,05
Initial Drying Time	24 Hours
Full Drying Time	7 Days
Performance Information	
Pressure Resistance	80 N/mm <sup>2</sup> (TS EN 12190)
Flexural Strength	32 N/mm <sup>2</sup> (TS EN 12190)
Concrete Adhesion Strength	> 3,5 N/mm <sup>2</sup> (Rupture from Concrete) (TS EN 4624)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknobond 910

## MMA Based Primer



CE TS EN 1504 – 2

**Product Description** MMA based, Air Dry, Transparent, Impregnation, Surface Protection and Primer Resin.

### Areas of Usage

- In airports (runway, apron), ports and shipyards,
- In all kinds of industrial fields, workshops and warehouses,
- In urban and non-urban roads, bridges, viaducts, pedestrian paths,
- In shopping malls and hospitals,
- In all historical works (mosque, church, castle, column, temple, sculpture, etc.)
- In prefabricated buildings,
- On surfaces of concrete, natural stone, asphalt.
- It is used as primer before TEKNOBOND 940 application.

### Features and Benefits

- MMA based
- It is very long-lasting and durable.
- Its application is very easy.
- It is resistant to atmospheric conditions.
- It is a single component.
- It prevents the powder from being impregnated on the surface.
- Adhesion on the surface is very high.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The concrete floor should not have water accumulation, humidity and moisture. It should be a dry floor and the concrete surface moisture should be below 4%.

**Surface Preparation:** High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, vacuum, roughening, sandblasting.

It is mixed in a clean container which is free from all kinds of materials that prevent adhesion or in a low speed mixer in its package until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.

The prepared mixture should be placed in 5 minutes depending on the air temperature and the amount of water. It is recommended to apply at least 2 coats. If the first layer is impregnated on the surface, the other coats can be applied for about 15 minutes (at 15°C). It is recommended that the application be done from top to bottom.

The amount of consumption given is theoretical and may vary depending on application temperature, type of beaten trowel used, ceramic grade, surface and workmanship. We recommend sample application for consumption control.

## Application Notes / Restrictions

- For outdoor applications, the first 1 hours of sunshine should be protected from rain and frost.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used..
- Do not add foreign matter.
- Hands and areas of contact with the skin and hands should be cleaned with water before the product is completely cured and hardened. In case of contact with eyes, wash eyes with warm water and detergent then a doctor should be consulted.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Clear yellow liquid
Shelf Life	12 months in unopened package in dry environment
Package	15 kg tin
Application Information	
Application Temperature	(+10°C) - (+50°C)
Consumption	200 - 300 gr/m <sup>2</sup>
Density	1,00±0,02 g/ml
Waiting Time Between Coats	15 min.
Time to Put Into Service	1 Hour
Water Absorption	% 0,005
Temperature Resistance	(-30°C) - (+80°C)
Hazardous Substances (EN 12004)	See the safety data sheet.

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

## Teknobond 920

MMA Based Two Component,  
Flexible, Joint Filler and Repair Mortar



### Product Description

Methylmethacrylate (MMA) based, low viscose, two component, joint and repair filler that is easily used both indoors and outdoors. There are two different types for wall and floor applications.

### Areas of Usage

- It can be used as filler for cold joints on surfaces such as concrete, surface hardener, mosaic, asphalt, and for repairing fine cracks.
- It's used in all kinds of military areas,
- In the track and apron regions,
- In all kinds of industrial fields, workshops and warehouses,
- On roads in and out of city, in parking lots,
- In houses, mansions, apartments, prefabricated buildings,
- In health facilities, hospitals,
- In factories and business centers,
- On roads, pedestrian ways,
- In airports and ports,
- In bars and restaurants,
- Mosaic, asphalt and so on. as fillers for cold joints on the surfaces,
- It is a product that can be used easily in fine cracks repair and joint fillings

### Features and Benefits

- It's methylmethacrylate (MMA) based.
- It has two components. It's reactively hardened with TEKNOHARDENER.
- It's used on the surface where TEKNOBOND 910 is applied.
- It has a fast drying time (average 1 hour).
- It's easy to use.
- It is not affected by UV rays and other atmospheric conditions.
- It has thermoplastic elasticity.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The concrete floor should not have water accumulation, humidity and humidity. It should be a dry floor and the concrete surface moisture should be below 4%.

**Surface Preparation:** High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, vacuum, roughening, sandblasting. TEKNOBOND 920 is a reactive hardened product. Depending on the air temperature during the application, TEKNOHARDENER is added to the main material of TEKNOBOND 920 at 0,6 - 4,0% and mixed well with the drill for 2-3 minutes at medium speed (500-800 rpm).

Temperature (°C)	Teknohardener Usage Rate (%)	Usage Time (Minutes)	Drying Time (Minutes)
+10	4,0	25	55
+20	1,0	25	60
+30	0,6	20	60

## Application Notes / Restrictions

- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. After the product is hardened, it should be cleaned by mechanical methods.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and mask should be used.
- It should not be forgotten that the strength and adhesion values of the product will change if the mixing ratios are changed.
- Application is made by means of spatula and trowel.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands and areas of contact with the skin and hands should be cleaned with water before the product is completely cured and hardened. In case of contact with eyes, wash eyes with warm water and detergent then a doctor should be consulted.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	6 months in unopened package in dry environment
Package	20 kg tin
Consumption	1.60 kg for 1 liter mortar
Application Information	
Application Temperature	(+5°C) - (+35°C)
Pot Life	15-25 min.
Density	1,6 kg/lt
Time for Opening to Traffic (23°C, 50% Moisture)	~1 hour
Performance Information	
Min. Joint Space	2 mm
Joint Application Depth	min. depth should be 2/3 of the joint width max. depth must not exceed the joint width
Viscosity	4500 - 5000 mPa.s.
Temperature Resistance	(-30°C) - (+80°C)
Hazardous Substance	See the safety data sheet.

# Teknobond 930

MMA Based, Fast Curing Anchoring and Repair Mortar



CE TS EN 1504 – 3 R4

## Product Description

Two component, Methyl methacrylate (MMA) acrylic based fast drying polymer concrete material that can be easily used both indoors and outdoors. It is used to repair dangerous and damaging pits and cracks in the grounds affected by heavy-duty traffic or excessive chemical substances (various acids, etc.), quickly and without disruption of traffic. It is also used as an adhesive in the fast anchors of the butane used as a retarder.

## Areas of Usage

- It's used in all kinds of military areas,
- Very fast repair airports (runway, apron) and ports etc.,
- Anchors and fillings on the floor of track fittings and electric cables,
- Direction and traffic signs, city furniture, etc. quick assembly of materials,
- Anchorage to the floor of the machine feet and ironstones,
- In all kinds of industrial fields, workshops and warehouses,
- In urban and non-urban roads, bridges, viaducts, pedestrian paths, landscaping,
- On parking lots, highways and bridges,
- In all historical works (mosque, church, castle, column, temple, sculpture, etc.)
- In prefabricated buildings,
- On surfaces as concrete, brick, mosaic, surface hardener.

## Features and Benefits

- MMA based.
- It has two components.
- It gains very early resistance.
- It is not affected by UV rays and other atmospheric conditions.
- It has thermoplastic elasticity.
- It creates a non-slip surface allowing all kinds of traffic.
- It is resistant to oil, fuel and antifreeze and many chemicals.
- Long-lasting and easy to apply material.
- It is resistant to heavy traffic conditions.
- Its carrying capacity is high.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The concrete floor should not have water accumulation, humidity and humidity. It should be a dry floor and the concrete surface moisture should be below 4%.

**Surface Preparation:** High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, vacuum, roughening, sandblasting.

**Mixing:** Pour component B into component A. Mix with a low speed electric stirrer until the mixture reaches a completely homogeneous appearance. Then pour the mixture into a suitable container. Continue mixing for at least 1-2 minutes until a homogeneous and smooth mortar is obtained.

## Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and mask should be used.
- It should not be forgotten that the strength and adhesion values of the product will change if the mixing ratios are changed.
- Hands and areas of contact with the skin and hands should be cleaned with water before the product is completely cured and hardened. In case of contact with eyes, wash eyes with warm water and detergent then a doctor should be consulted.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in unopened package in dry environment
Package	20 kg bucket
Application Information	
Application Temperature	(-5°C) - (+50°C)
Mixture Ratio	A/B: 2,25/17,75 Kg
Pot Life (23°C, 50% Humidity)	15-20 min.
Time to put into Service (23°C, 50% Humidity)	1 Hour
Application Thickness	10-40 mm (Single coat)
Performance Information	
Concrete Adhesion Strength (EN 1542)	≥ 6,25 N/mm <sup>2</sup> (Rupture from Concrete)
Compression Strength (EN 12808-3) 1 day	≥ 40 N/mm <sup>2</sup>
Compression Strength (EN 12808-3) 7 days	≥70 N/mm <sup>2</sup>
Temperature Resistance	(-30°C) - (+80°C)
Hazardous Substances (EN 12004)	See the safety data sheet.

## Consumption Table

Teknobond 930	Mixture Density (kg / liter)	Mixing Ratio A / B (by Weight)
20 kg bucket	~2,05	2,25 / 17,75

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknobond 940

Fast Curing MMA Based Grout



**Product Description** MMA based, two component (in hardener and special grade powder component), mortar for flooring, fast anchorage and quick repair purpose.

## Areas of Usage

- It's used in all kinds of military areas,
- In airports (runway, apron) and ports,
- Anchors and fillings on the floor of track fittings and electric cables,
- Direction and traffic signs, city furniture, etc. quick assembly of materials,
- Anchorage to the floor of the machine feet and ironstones,
- In all kinds of industrial fields, workshops and warehouses,
- In urban and non-urban roads, bridges, viaducts, pedestrian paths, landscaping,
- In parking lots,
- In all historical works (mosque, church, castle, column, temple, sculpture, etc.)
- In houses, mansions, apartments,
- In prefabricated buildings,
- In health facilities, hospitals,
- On surfaces as concrete, brick, mosaic, surface hardener.
- For the repair of dangerous and damaging pits and cracks in the grounds quickly and without disruption of traffic.
- It's used as minimum 5 mm. in thickness mortar type coating material on grounds with heavy-duty traffic or excessive chemical substances (various acids, etc.)

## Features and Benefits

- MMA based, two components.
- Adhesion on the surface is very high.
- It works with the surface thanks to its thermoplastic elasticity.
- It has a rapid drying time (after 1 hour from the end of application, it will dry with full strength).
- It's flexible, adapts to the expansion of the applied surface due to traffic and atmospheric conditions.
- Compatible with weather changes.
- It can be applied in desired thickness. (However, after waiting for 15-20 minutes, the other layers are applied in the same way per 5cm.)
- The material can be made flexible according to the ambient conditions and the properties of the floor.
- It is very long-lasting and durable.
- Its application is very easy.
- It is 100% resistant to atmospheric conditions.
- Before applying, request technical support for ground conditions.

## Application Instructions

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. The concrete floor should not have water accumulation, humidity and humidity. It should be a dry floor and the concrete surface moisture should be below 4%.

Surface Preparation: High pressure water should be prepared by cleaning with suitable mechanical surface preparation techniques such as jetting, vacuum, roughening, sandblasting. Pour component B into component A. Mix with a low speed electric stirrer until the mixture reaches a completely homogeneous appearance. Then pour the mixture into a suitable container. Continue mixing for at least 3 minutes until a homogeneous and smooth mortar is obtained.

In the pits and crack repairs that occur in the roof, the broken areas must be cleaned up to a certain extent. The floor must be cleaned from dust with a compressor. After applying TEKNOBOND 910 Primer, application of TEKNOBOND 940 should be started.

The prepared mixture should be placed in 5 minutes depending on the air temperature and the amount of water. TEKNOBOND 940 should be poured from one side in order to fill under the gaps surrounded by four sides and covered.

### Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and mask should be used.
- It should not be forgotten that the strength and adhesion values of the product will change if the mixing ratios are changed.
- So it discharges air and prevents gaps. It can be pushed from one side with a long piece of iron during casting to speed up flow.
- Hands and areas of contact with the skin and hands should be cleaned with water before the product is completely cured and hardened. In case of contact with eyes, wash eyes with warm water and detergent then a doctor should be consulted.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER. After the product is hardened, it should be cleaned by mechanical methods.

### Technical Data

General Information	
Appearance	A + B Component Light grey, liquid.1
Shelf Life	2 months in unopened package in dry environment
Package	29 kg set (25 kg kraft bag, 4 kg resin)
Mixture Density	2,00 + 0,1 kg/lit
Application Information	
Application Temperature	(+5°C) - (+50°C)
Consumption - for 5 mm	10,0 kg/m <sup>2</sup>
Pot Life	15-20 min.
Time to Put into Service	1 Hour
Performance Information	
Compressive Strength	>75 N/mm <sup>2</sup> (TS EN 196-1)
Flexural Strength	>25 N/mm <sup>2</sup> (TS EN 196-1)
Modulus of Elasticity	4350 N/mm <sup>2</sup> (TS EN 1542)
Ball Pressure Strength	45-50 N/mm <sup>2</sup>
Temperature Resistance	(-30°C) - (+80°C)
Concrete Adhesion	>3,0 N/mm <sup>2</sup> (Failure from Concrete)
Hazardous Substances (EN 12004)	See the safety data sheet.

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknobeton

Normal Setting, C20 / 30 Class Drymix Concrete



**Product Description** Cement based, drymix concrete with C20 / 30 strength class, containing specially selected aggregates and additives.

**Areas of Usage**

- Indoors and outdoors under tiles, ceramic, granite ceramic, marble and natural granite.
- It's used in residential and garden areas, on the bases, in the mantle and filling of mold stones, on the garden walls, in the support and the pendants, for filling the gaps in the surface of the elements such as walls, floors, door and window lentils, beams and lentos, storey floors, in the assembly of prefabricated upholstery, in the floor grates, on the stairs, floor slabs, chimneys / installation spaces and many other areas.

**Features and Benefits**

- Ready to use and easy to be applied.
- It provides time and labor savings.
- This factory mix product, thanks to its homogeneous mixture, offers the same and high quality of construction site mix at every point of application compared to concrete prepared by conventional method.

**Application Instructions**

Fresh concrete should be applied immediately after mixing as soon as possible and should be avoided (car, crane, sprinkler, piping etc.) falling from the mixer to the application point. Drop heights exceeding one meter must be avoided. The applied concrete should be pressed or polished according to the consistency. In applications where concrete and existing screed are to be applied, priming of the surface is important to increase the retention.

The recommended operating ambient temperature is between +5°C and +35°C. Moisture should not be applied in high or very hot weather, especially under direct sunlight. Water is added to achieve the desired consistency (the concrete consistency may be between solid and plastic).

The product can also be applied with machine. Consult for application details. The product can be applied outdoors, but it needs to be covered with a waterproofing material that can be used on or around the coating material resistant to outdoor conditions.

**Application Notes / Restrictions**

- For further information, see the Technical Data Sheet and the Material Safety Data Sheet.
- In case of very hot or humid weather, the setting time may vary.
- No additives should be added to any foreign material during preparation into the product.
- The air, material and ground temperature must be above +5°C during application and curing process. Ready-mixed concrete should not be applied on frosted surfaces and / or frost hazard. European norms should be followed during concrete installation (concrete preparation, transportation, compaction during installation, application period, work joints, concrete in cold and hot weather, post-application operations and mold removal).

## Technical Data

General Information	C20	C30
Appearance	Grey	Grey
Shelf Life	12 months in unopened package in dry environment	12 months in unopened package in dry environment
Package	25 kg kraft bag	25 kg kraft bag
<b>Application Information</b>		
Application Temperature	(+5°C) - (+35°C)	(+5°C) - (+35°C)
Mixture Ratio	3 - 4 lt water/25 kg powder	3 - 4 lt water/25 kg powder
Pot Life	1 hour	1 hour
Grain Size	D <sub>max</sub> : 8 m	D <sub>max</sub> : 8 m
Time to Put into Service	1 day	1 day
<b>Performance Information</b>		
Compressive Strength (EN 12808-3)	≥ 20 N/mm <sup>2</sup>	≥ 30 N/mm <sup>2</sup>
Temperature Resistance	(-30°C) - (+80°C)	(-30°C) - (+80°C)
Hazardous Substances (EN 12004)	See the safety data sheet.	See the safety data sheet.
Fire Response	A1	A1

## Consumption Table

	TEKNOBETON Bagged Ready Mixed Concrete	Dry Unit Weight (kg/m <sup>3</sup> )	Powder Consumption for 1 cm Thickness (kg/m <sup>2</sup> )	Mixture Water Amount (liters)
C20	25 kg kraft bag	2000±100	~20	3 - 4
C30	25 kg kraft bag	2080±100	~20	3 - 4

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# RESTORATION PRODUCTS FOR HISTORIC MASONARY



# Teknorep 500

## Natural Hydraulic Lime



**Product Description** It is a special mortar prepared for historical buildings without cement. It is a plaster, mortar that provides breathability and has a high water vapor permeability.

**Areas of Usage**

- Stone and brick wall weaving,
- Restoration or strengthening of historic masonry structures,
- Repair works for cracks of domes and vaults,
- It is used in stone, brick and wall knitted works of existing historical structures.
- It is used as a binder in the preparation of Khorasan mortar for grouting production.

**Features and Benefits**

- Easy to implement.
- Cement-free.
- High bond strength.
- Breathable, high water vapor permeability.
- It allows the production of mortar in different properties compatible with historical texture.
- It is cooked with conventional methods at low temperatures.

**Application Instructions**

Surface Quality: Surfaces should be clean, smooth, free from all kinds of dust, oil, dirt, rust, mould oil, detergents, etc. Weak Parts on the surface should be removed.

Surface Preparation: It should be noted that the surfaces to be repaired and plastered in historic masonry structures should be solid, dust-free and clean. All kinds of oils, rust, etc. that weaken the surface, adherence, it should be cleaned thoroughly. Application of the surface of the wall should be dampened in advance to improve the adhesion and the time of the mortar. If there is a flow of water on the surface, it should be closed with the help of an appropriate Plug and the water should be drained.

Mixing: the required amount of water is put in a clean mixing bucket with the help of scale and the TEKNOREP 500 is added slowly and mixed with a 400-500 cycle mixer for about 4 minutes.

**Application Notes / Restrictions**

- In outdoor applications, the sun should be protected from rain and frost for the first 3 hours.
- Reaction times are affected by ambient and ground temperatures. The reaction times are shortened in the hot place and the cold place is prolonged.
- Warm water should be used in cold places.
- Iced mixture water should be used in hot places.
- During the application of the product, work clothes must be worn and appropriate glasses and masks must be worn in accordance with the occupational health and safety regulations.
- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above 35°C), rain and frost. The product should be cleaned with water and detergent before it gets cured.
- Immediately after application, equipment should be cleaned with water before curing. After the product has hardened, it should be cleaned by mechanical methods.
- Prepared mortar is easily applied with a trowel. For more than one coat application, it should be done after the previous hardener. Precautions should be taken against rapid drying in open area and wide surface applications.

**Technical Data**

<b>General Information</b>	
Material Structure	Natural Hydraulic Lime
Appearance	Light Grey and Off-White
Shelf Life	12 months in dry environment in unopened packaging.
Package	25 kg Kraft bag
<b>Application Information</b>	
Application Temperature	(+5°C) - (+35°C)
Deflexion Strength	> 1,0 N/mm <sup>2</sup>
Compressive Strength	> 3,70 N/mm <sup>2</sup>
Class (EN 459-1)	NHL 3,5
Mix Proportion	Khorasan mortar is variable according to its formula.
Outlay	Khorasan mortar is variable according to its formula.
Mortar Density (g/cm <sup>3</sup> )	1,65 ±0,1

# Teknorep 510

Natural Hydraulic Lime Based Plaster.



## Product Description

It is a cement-free, natural hydraulic lime based plaster material used for obtaining a smooth surface in historical masonry buildings.

## Areas of Usage

- Restoration of historic masonry buildings.
- Exterior plater,
- Plaster and surface repair,
- Surface leveling on the surfaces of Khorasan plaster,
- Repair of natural Stones, brick and wall joints,

## Features and Benefits

- The restoration of historic buildings is also one of the best products since it does not contain soluble salts.
- Cement-free.
- Flowering resistance is high.
- Easy to prepare and apply.
- Provides good adhesion on plaster.
- Breathable, high water vapor permeability.

## Application Instructions

**Surface Quality:** The surfaces to be repaired of historic buildings should be clean, smooth, sound, free from all kinds of dust, oil, dirt, rust, mold, oil, detergents, etc. Weak parts on the surface should be removed.

**Surface Preparation:** absorbent surfaces should be wetted in advance, but bi accumulation of water should be left.

Before applying TEKNOREP 510 plaster mortar, it is recommended to mositen the surfaces. Prepared TEKNOREP 510 plaster mortar is applied with the help of a trowel. It should be protected from rain, sun and frost for 36 hours after application. The required amount of water (4 to 6 water for 1 bag of powder) is put into a clean mixing bucket with the help of a scale and the TEKNOREP 510 plaster is added slowly and mixed with a 400-500 speed mixer for about 4 min. After resting for about 4 min. and mixing again for 30 sec. the material becomes ready for use.

Prepared mortar thickness is 2-3 mm between the trowel is applied. The mortar is expected to draw the water and sprinkle the water on the mortar with the plaster brush and finish the surface with steel or wood trowel as desired. To obtain a much smoother surface, it is necessary to apply twice as much. One day should be waited between layers. Before applying the new layer, the previous layer should be dampened.

## Application Notes / Restrictions

- In outdoor applications.
- Reaction times are affected by ambient and ground temperatures. The reaction times are shortened in the hot place, and the cold place is prolonged.
- Warm water should be used in cold environments.
- Iced mixture water should be used in hot environments.
- During the application of the product, work clothes must be worn and appropriate glasses and masks must be worn in accordance with the occupational health and safety regulations.

## Application Notes / Restrictions

- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above + 35°C) rain and frost. The product should be cleaned with water and detergent before it gets cured.
- Immediately after application, equipment should be cleaned with water before curing. After the product has hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Material Structure	A special blend of natural hydraulic lime based
Appearance	Off-white
Shelf Life	12 months in dry environment in unopened packaging.
Package	16 kg kraft bag
Application Information	
Implementation Process	Min. 30 minutes
Application Ground Temperature	(+5°C) - (+35°C)
Average Grain Size	0-0,6 mm
Performance Information	
Deflexion Strength	> 2,0 N/mm <sup>2</sup>
Compressive Strength (EN 1015-11)	> 11 N/mm <sup>2</sup>
Water Vapor Permeability (EN 1745)	$\mu < 15$
Capillary Water Absorption (EN 1015-18)	0,2 kg m <sup>-2</sup> dk <sup>-0,5</sup>
Bond Strength	> 0,15 N/mm <sup>2</sup>
Reaction to Fire	A1

## Consumption Table

Teknorep 510	Mixture Density (kg/litre)	1 mm/1 m <sup>2</sup> Powder Consumption (kg)	Amount of Mixture Water (litre)
16 kg kraft bag	1,70 – 1,90	1,4	4 – 6

Technical informations are approximately the values obtained in Techno Structural Chemical Laboratory study of finished products obtained in the +20C Air Temperature and 50% relative humidity.

# Teknorep 520

## Natural Hydraulic Lime Based Repair Mortar



### Product Description

Hydraulic lime based, designed for historic buildings, harmless natural mineral, containing fibers, cement-free, thixotropic enabled repair mortar.

### Areas of Usage

- Restoration or strengthening of historic masonry structures,
- Repair or re-construction of cashew domes and vaults,
- The foundation of the present historical masonry walls,
- Used for filling large gaps,
- Repair works for the restoration of lost carrying capacity of stone, brick or foam walls,
- Constructed of stone, brick or alluvial attachments to be used for repair or reinforcement,
- It is a repair mortar used for the placement of carbon bars in wall joints.

### Features and Benefits

- Easy to apply
- Cement-free
- High adhesion strength
- Mechanical strength is high.
- Flowering resistance is high.
- Water vapor has a high permeability, it can breathe.
- Easy and rapid applicable.
- Contains no water soluble salts.
- Low capillary has water absorption properties.

### Application Instructions

Surface Quality: Surfaces should be clean, smooth, free from all kinds of dust, oil, dirt, rust, mould oil, detergents, etc. Weak Parts on the surface should be removed.

Surface Preparation: Absorbent surfaces should be wetted in advance, but no accumulation of water should be left.

Mixing: The required amount of water is put in a clean mixing bucket with the help of a scale of 6.5 kg Kraft bag (water is 5.50 kg) an the TEKNOREP 520 repair mortar is gradually added and mixed with a mixer of 400-500 rpm for approximately 4 minutes.

The prepared mortar is applied with trowel to the previously dampened surface. Application in applications to be made in more than once layer, after the hardening of the previous layer, application should be made so that each layer is up to 5 cm thick. Before applying the new layer, the previous layer should be dampened.

In screed and concrete- like applications, the fresh mortar is washed clean by 30-35% by weight and the grain size can be added to the aggregates ranging from 5-20 mm.

### Application Notes / Restrictions

- In outdoor applications, the sun should be protected from rain and frost for the first 3 hours.
- Reaction times are affected by ambient and ground temperatures. The reaction times are shortened in the hot place and the cold place is prolonged.
- Warm water should be used in cold places.
- Iced mixture water should be used in hot places.

- During the application of the product, work clothes must be worn and appropriate glasses and masks must be worn in accordance with the occupational health and safety regulations.
- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above +35°C), rain and frost. The products should be cleaned with water and detergent before it gets cured.
- Immediately after application, equipment should be cleaned with water before curing. After the product has hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Material Structure	Special blend with natural hydraulic lime based and adjusted gradients
Appearance	Off-white and White coffee
Shelf Life	12 months in dry place in unopened packaging.
Package	16 kg kraft bag
Application Information	
Implementation Process	Min. 30 minutes
Application Ground Temperature	(+5°C) - (+35°C)
Grain Size	< 0,06 mm
Application Thickness	Each storey 1 - 5 cm
Performance Information	
Deflexion Strength	> 2,0 N/mm <sup>2</sup>
Compressive Strength (EN 1015-11)	> 15
Water Vapor Permeability (EN 1745)	μ<35
Capillary Water Absorption (EN 1015-18)	0,2 kg m <sup>-2</sup> dk <sup>-0,5</sup>
Bond Strength	>0,15 N/mm <sup>2</sup>
Reaction to Fire	> 16000 N/mm <sup>2</sup>
Deflexion Strength	A1

## Consumption Table

Teknorep 520	Mixture Density (kg/litre)	1 cm/1 m <sup>2</sup> Powder Consumption (kg)	Amount of Mixture Water (litre)
16 kg kraft bag	1,90	15	5,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 530

## Natural Hydraulic Lime Based Injection Mortar



### Product Description

It is an injection mortar developed for historic masonry structures containing pozzolanic lime and micronized carbonate. It does not contain cement and soluble salts (alkalis, sulfates, chlorides and nitrates).

### Areas of Usage

- Restoration of lost transport capacity of stone, brick or foam walls,
- Restoration or strengthening of historic masonry structures,
- Repair of cracks of domes and vaults,
- Foundation of existing historical masonry walls,
- Filling large spaces,
- On the walls in sulfuric environments,
- It is especially used for repairing and strengthening cracks.

### Features and Benefits

- Easy to implement. It can be injected easily and effectively using low pressure pumps, syringes or thin needles.
- Cement does not contain additives and dissolved salts (alkalis, sulfates, chlorides or nitrates), it does not deteriorate over time.
- It can be used in places containing sulphate.
- High adhesion strength.
- Breathable, high water vapor permeability.
- It adapts perfectly with brick, stone and tuff material without disturbing the wall and moisture permeability properties of the wall.
- It provides controlled expansion preventing plastic shrinkage without causing harmful expansion.

### Application Instructions

**Surface Quality:** surfaces should be clean, smooth, stable, free from all kinds of dust, oil, dirt, rust, mould oil, detergents, etc. Weak parts on the surface should be removed.

**Surface Preparation:** absorbent surfaces should be wetted in advance, but should not remain water puddles and drops.

**Cracks less than 5 mm:** according to the crack width, depth and ambient conditions, the cracks should be opened with the appropriate intervals (35-45 cm) surprised by both sides of the plane. These holes should be opened with a depth of about 45 angle with the crack planet o pierce the crack plate and pass to the other side. Dust and free particles should be removed by keeping the air in the holes opened and plastic packets should be trapped and squeezed inside.

**Cracks greater than 5 mm:** According to crack width, depth and environmental conditions, pneumatic hoses should be installed with appropriate intervals (70 - 90 cm) within the crack. Free air in the crack must be removed with compressed air.

**Mixing:** The amount of water required (16 liters of kraft bag for 4.8 liters of water) is placed in a clean mixing bucket with the help of scale and TEKNOREP 530 Injection Mortar is added slowly and with a 400-500 rpm mixer for about 4 minutes. mixed.

## Application Notes / Restrictions

- In outdoor applications, the sun should be protected from rain and frost for the first 3 hours. reaction times are affected by ambient and ground temperatures.
- The reaction times are shortened in the hot place, and the cold place is prolonged.
- During the application of the product, work clothes must be worn and appropriate glasses and masks must be used in accordance with the occupational health and safety regulations.
- Injection mortar prepared is pre-empted of dust and parts and plastered with TEKNOREP 510/520 repair mortar for 48 hours after injection machine is injected.
- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above + 35°C), rain and frost. The product should be cleaned with water and detergent before it gets cured.
- Immediately after application, equipment should be cleaned with water before curing. After the product has hardened, it should be cleaned by mechanical methods

## Technical Data

General Information	
Material Structure	A special blend of natural hydraulic lime based.
Appearance	White coffee
Shelf Life	12 months in dry place in unopened packaging.
Package	16 kg kraft bag
Application Information	
Implementation Process	Min. 30 minutes
Application Ground Temperature	(+5°C) - (+35°C)
Average Grain Size	0,1-30 mm
Fluidity (DİN CUP 6)	After 3 minutes, < 33 seconds After 20 minutes, < 45 seconds
Performance Information	
Deflexion Strength	> 2,5 N/mm <sup>2</sup> 7 days
Compressive Strength (EN 1015-11)	> 7 N/mm <sup>2</sup> 7 days > 13 N/mm <sup>2</sup> 28 days M10
Water Vapor Permeability (EN 1745)	15/35 μ
Capillary Water Absorption (EN 1015-18)	0,2 kg m <sup>-2</sup> dk <sup>-0.5</sup>
Bond Strength	>0,15 N/mm <sup>2</sup>
Reaction to Fire	A1

## Consumption Table

Teknorep 530	Mixture Density (kg/litre)	1 mm/1 m <sup>2</sup> Powder Consumption (kg)	Amount of Mixture Water (litre)
16 kg kraft bag	1,90	1,45	~4,8

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative humidity.

# Teknorep 550

## Natural Hydraulic Lime

### Product Description

The product is a special, cement-free material prepared for historical buildings. It is a hydraulic lime that is produced for use in the production of Khorasan mortar.

### Areas of Usage

- It is used for restoration or strengthening of historical masonry structures,
- Repairing of dome and vault cracks,
- Stone, brick and wall laying of current historical structures,
- Plastering of structures which need high water vapor permeability,
- Restorations and jointing, grouting and repairing of green buildings
- It is used as a binder in the preparation of Khorasan mortar for grouting production.

### Features and Benefits

- It is compatible with the historical structures
- It enables the production of mortar with various properties
- It has high water vapor permeability
- It has high strength
- It is a cement-free material

### Application Instructions

The materials that are given in the mortar analysis are measured in necessary amounts and mixed. The certain amount of water that is given in Khorasan mortar formula is added to the mixture and it is mixed again until a homogeneous material is obtained.

It should be noted that the surfaces to be repaired and plastered in historic masonry structures should be solid, dust-free and clean. All kinds of materials such as oil, rust, grease, that weaken the surface adherence should be cleaned thoroughly.

Application surface of the wall should be moistened in advance to improve the adhesion and the setting time. If there is a water leakage on the surface, it should be stopped with the help of an appropriate stopper and the water should be drained. There should not remain any free water that prevents adhesion on the surface. The mortar is waited to drain its water when it is applied, and water is sprinkled on the drained surface with a plaster brush and then the surface is finished as desired with the help of a steel or wood trowel.

For multiple layer applications, the application should be done after the hardening of the former layer complete. For broad surface and outdoor applications, the necessary precautions should be taken against rapid drying. The rapid water loss should be tolerated by wet sack or water during 1 -2 days.

## Application Notes / Restrictions

- The temperature of surrounding and the surface should not be below the minimum temperature for the product to complete its setting.
- In outdoor applications, the surface should be protected from sunlight, wind, rain and frost during 24-48 hours after the application.

## Technical Data

General Information	
Appearance	Natural white
Shelf Life	12 months in dry place in unopened packaging.
Package	16 kg kraft bag
Application Information	
Mixing Ratio	Changeable depending on Khorasan mortar formula
Application Temperature	(+5°C) - (+35°C)
Consumption	Changeable depending on Khorasan mortar formula
Performance Information	
Flexural Strength	Min. 1,0 Mpa
Pressure Resistance	Min. 4,0 Mpa
Hazardous Material	Read the safety data sheet
Reaction to Fire	A1 class

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative humidity.

# EXTERNAL THERMAL INSULATION, FACADE PRODUCTS AND PLASTERS



# Teknoizofix

## Heat Insulation Board Adhesive



Public Pos. No: 04.480

  TS 13566

**Product Description** Cement based polymer modified adhesive mortar which is used for bonding boards (EPS, Mineral Wool, XPS and etc) to surfaces such as concrete, brick and aerated concrete.

**Areas of Usage**

- It is used to paste heat insulation board on aerated concrete, brick, gas concrete in interior and outer spaces.
- Residences, shopping centers and hospitals,
- For horizontal, vertical and overhead applications,
- On all kinds of mineral surfaces.
- It can be used as general adhesive for applications except sheathing.

**Features and Benefits**

- It has high adhesion strength.
- It is easy to apply and to give shape.
- It demonstrates high resistance to all kinds of climate conditions.
- It is durable.
- It is not flammable.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed. If there are cracks, pits on the surfaces or walls which the applications shall be made, they must be repaired with appropriate TEKNOREP repairing mortars.

Surface Preparation: The surface which it shall be applied on must be humidified slightly. There must not be wetness and plash. In addition, if the defects are excessive, finishing or rough coat must be made in advance.

**Application Method**

Frame Method: TEKNOIZOFIX is applied on all edges of the heat insulation board with the aid of trowel in the form of frame. Additionally, two piles of TEKNOIZOFIX adhesive mortar is placed on the 10 cm. right and 10 cm left sides from the center of the board as the trowel to be a pile. This method is generally used on unlevelled or old building walls. In case the surface is defective excessively, heat insulation board should not be forced to be pasted in a malformation manner. In this case, when setting the TEKNOIZOFIX, if the heat insulation board tries to reconstitute, unidirectional adhesion weaknesses may be seen.

Chiseling Method: The heat insulation board is applied on the surface of the building with the aid of toothed trowel. This method is generally used on very smooth surfaces. When applied on defective surfaces, adhesion weaknesses may be seen.

IZODER also recommends only these two methods. Only making lumps without framing is not a correct application method.

**Application Notes / Restrictions**

- Special precautions should be taken for applications to be performed on glass mosaic, ceramic, painted, old and dusty surfaces;
  - Glossy surfaces such as glass mosaic and ceramic should be primed with TEKNOLATEX 300.
  - Painted old surfaces should be notched or primed.
  - Washing with water jet or priming should be performed on weak surfaces with excessive dust emission.

- For Mineral wool applications TEKNOIZOFIX Thermal Insulation Board Adhesive firstly should be applied as primer to the mineral wool parts to be treated.
- TEKNOIZOFIX application should not be made before rough coat on the briquette or aerated concrete surfaces.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.
- It should be protected, covered with nylon or exposure of the product to frost should be prevented by applying insulating board plates under environment conditions to be below +50°C.
- It should be protected, covered with nylon or exposure of the product to dehydration should be prevented by applying heat insulation board plates under temperatures above +35°C.
- Do not add foreign substances.
- 5,5 – 6,5 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. TEKNOIZOFIX in the 25 kg bag in powder form, is emptied in the pot filled with water. It is stirred with a low-speed mixer until a smooth and homogeneous appearance is obtained. Mixture period must be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 min., and stirred again for 2 min. until it becomes homogenous.
- There are two different types of adhesion method depending on the workmanship, evenness of the surface and heat insulation board type to be used.
- After the board is adhered to the surface, in 24 – 48 hours plugging can be started depending on the air temperature.
- It must be protected against bad weather conditions such as direct sunlight, strong wind, high air temperature (above +35°C), rain and frost after the application. The hands should be washed with water and detergent before the product is cured and hardened.
- The equipment should be cleaned immediately after the application before it is hardened yet. They should be cleaned by mechanical methods after it is hardened.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in dry environment in its unopened package.
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixing Ratio	5,5 – 6,5 lt water / 25 kg powder
Pot Life	4 hours
Period of Getting into Use	2 – 3 days
Application Thickness	Max. 8 mm
Plugging Period	After minimum 24 hours
Performance Information	
Adhesion Strength to Substrate (EN 1015-12)	~ 0,9 N/mm <sup>2</sup>
Adhesion Strength to EPS (EN 13494)	~ 0,12 N/mm <sup>2</sup>
Reaction to Fire	A1

**Consumption Table**

<b>Teknoizofix</b>	<b>1 m<sup>2</sup> Powder Consumption For Polystyrene Plate</b>	<b>1 m<sup>2</sup> Powder Consumption For Rock Wool Plate</b>	<b>Amount of Mixture Water (l)</b>
25 kg kraft bag	4 – 4,5 kg	5,5 – 6,5 kg	5,5 – 6,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknoizosiva

## Heat Insulation Board Plaster



TS 13687

Public Pos. No: 04.481

**Product Description** Cement based polymer modified, fiber reinforced special plaster which is used for plastering boards (EPS, Mineral Wool, XPS and etc) in external and interior applications.

### Areas of Usage

- For plastering the heat insulation board's top in outer wall heat insulation system,
- For plastering on concrete, gas concrete, hollow foam at inner and outer spaces,
- At residences, shopping centers and hospitals,
- For horizontal, vertical and overhead applications.
- For all kinds of reinforced concrete civil engineering constructions.

### Features and Benefits

- It is easy to apply and to give shape.
- It is a long lasting product in various weather conditions.
- It has high impact resistance thanks to polymer powders in its formulation
- It has vapor permeability.
- It is not flammable.
- Paint can be applied directly on it.
- it tolerates the shrinkage and expansion caused by temperature differences and minimizes the risk of cracking thanks to fibers in its structure.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed. If there are cracks, pits on the surfaces or walls which the applications shall be made, they must be repaired with appropriate TEKNOREP repairing mortars.

**Surface Preparation:** The gaps remaining between the heat insulation boards should be filled by small pieces which shall be cut again from these boards.

Before plastering application, the places which wall plugs shall be placed are opened on the board via a punch attached to the drill bit. The wall plugs are driven. Plug choice must be made depending on the thickness of the concrete, brick, gas concrete, and heat insulation board. At least 6 plugs must be driven for 1 m<sup>2</sup> area. As the story height increases, the number of plugs must also be increased. Opening the plugs properly, increases the quality of the application.

If the wide round end (head) remains excessively outside or excessively inside of the board plain, a bad appearance results after the rain or with the sunlight. The locations of the plugs become clear.

After the plugging process finishes, TEKNOIZOSIVA application can be started. 6 – 7 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. TEKNOIZOFIX in the 25 kg bag in powder form, is emptied in the pot filled with water. It is stirred with a low-speed mixer until a smooth and homogeneous appearance is obtained. Mixture period must be minimum 5 minutes. The mortar obtained at the end of the process should be rested for 3 m., and stirred again for 2 m. until it becomes homogenous TEKNOIZOSIVA is applied on heat insulation boards after plugging process finishes, and on heat insulation boards having a thickness of 4 mm via 10x10 notched steel trowel.

The alkali resistant glass fiber mesh (160 gr/m<sup>2</sup>) is overlapped 10 cm, pressed 1-1,5 cm as to be near to the external wall by trowel before the plaster dries, and plaster surface is leveled out. An additional plaster mesh reinforce and TEKNOIZOSIVA application must be done on locations where sudden cross-sectional changes exist such as doors and windows. It is recommended to prefer meshed corner profile for the profile applications made to ensure the structure edges to be smooth. Ambient temperature and surface temperature should be between minimum +5°C and max +30°C during application or drying.

## Application Notes / Restrictions

- For Mineral wool applications TEKNOIZOSIVA Thermal Insulation Board Plaster firstly should be applied as primer to the surface.
- TEKNOIZOSIVA should not be applied on places having direct sunlight, in rain and strong wind.
- The product should be protected against frost until it is set. The application should be protected against wetting due to rain or various reasons until its drying period completed.
- In case the ambient and surface temperature exceeds +25°C, the surface should be wetted by spraying method (with non-pressurized water) at certain intervals in order to prevent sudden dehydration and ensure the plaster sets in a good manner.
- The surface should be covered without being exposed to excessive dew, humidity and rain after Plaster Mortar application.
- Decorative plaster application can be made 1 day after the application for summer season and 2 days after the application for winter season.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.
- Do not add foreign substances.
- Ensure that the rock wool plate is dry and have sufficient resistances for the applications to be made on rock wool plates.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in dry environment in its unopened package.
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) – (+30°C)
Mixture Proportion	6 – 7 lt water / 25 kg powder
Pot Life	3 hours
Mortar Density	~1,60 kg/lt
Performance Information	
Adhesion Strength to Insulation Board (TS EN 13494)	≥ 0,08 N/mm <sup>2</sup>
Resilience	High
Consumption	On polystyrene plate: 4,1 – 4,6 kg/m <sup>2</sup> On rock wool plate: 5,2 – 6,3 kg/m <sup>2</sup>
Reaction to Fire	A1

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

## Teknodeko

Mineral, Decorative Render (Grain, 2 mm)



Public Pos. No: 04.476/D



### Product Description

It is white cement based, one-component, polymer modified and water-repellent top coat material used on plaster of buildings' external wall and heat insulation system.

### Areas of Usage

- At residences, shopping centers and hospitals,
- For horizontal, vertical and overhead applications,
- On all kinds of mineral surfaces,
- As decorative coating on facade heat insulation systems,
- As decorative coating on aerated concrete at inner and outer spaces.

### Features and Benefits

- It is easy to apply and give shape.
- It demonstrates high resistance to all kinds of climate conditions.
- It is resistant against outer weather conditions and water-repellent. It prevents humidity accumulation.
- It removes the surface defects.
- It is durable, inflammable, and does not roughen.
- It provides a homogeneous decorative appearance after application.
- It clears the steel trowel tracks on the plaster due to its texture.
- It can be painted by house paints.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed. If there are cracks, pits on the surfaces or walls which the applications shall be made, they must be repaired with appropriate TEKNOREP repairing mortars.

**Surface Preparation:** It is recommended to apply TEKNOLATEX 400 as decorative plaster primer before the application in hot weathers. TEKNODEKO is added into clean and cold water gradually and stirred approximately for 10 min. with a low speed mixer until the mixture becomes smooth. The stirred mixture is rested for 5 min. and stirred again. If necessary, the consistency of the mixture is readjusted by adding water. The required water amount should be adjusted according to the weather conditions. Attention should be given to ensuring that the particles in the product not to be corroded when stirring with machine. Equal amount of water should be used for each lot of mortar mixture. Otherwise, pattern and tone differences may occur on the surface. Prepared mixture should be used within 2 hours depending on the weather conditions. The homogenous mixture prepared is applied on the surface properly via steel trowel and excessive material is removed from the surface in order to obtain a layer with a thickness as of the particles in the product. The pattern should be given within 10 min. at the latest after TEKNODEKO is applied homogeneously on the application surface. The pattern is given by cyclical movements with the aid of plastic or polyurethane trowel in order to obtain fine particle texture. The surface of the trowel must be scratched frequently when giving pattern. The products with same burden numbers should be used on same surfaces. Attention should be given to employ in sufficient number of persons, to apply the material continuously and without interruption until reaching to the jointing ends or detail corners so that there is not any overlapping on the large surfaces.

## Application Notes / Restrictions

- The hardened material should not be used by adding water into it.
- Paint primer must be used necessarily for dark color applications.
- Both for increasing the resistance of TEKNODEKO against pollution and external effects and for preventing the applications which tone diversity occurs due to various reasons, all coating surface must be painted by 2-coat paint.
- Paint consumption changes according to the pattern. The color should be checked before the application. The materials should be purchased depending on the needs.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.
- It should be protected, covered with nylon or exposure of the product to frost should be prevented by applying insulating board plates under environment conditions to be below +5°C.
- It should be protected, covered with nylon or exposure of the product to sudden dehydration should be prevented by applying heat insulation board plates under temperatures over +30°C.
- Do not add foreign substances.
- 6,0 – 6,5 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. TEKNODEKO in the 25 kg. bag in powder form, is emptied in the pot filled with water. It is stirred with a low-speed mixer until a smooth and homogeneous appearance is obtained. Mixture period must be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 m., and stirred again for 2 m until it becomes homogenous.
- The mixture prepared is applied on the surface properly via steel trowel. The pattern should be given within 5 minutes after TEKNODEKO is applied homogenously on the surface by cyclical movements with flat plastic trowel. The surface of the plastic trowel must be cleaned frequently when giving pattern.
- It should not be applied under direct sunlight, in strong wind, fog, at high relative humidity rates or during heavy rains. The application performed should be taken under protection against heating and intensive sunlight depending on various reasons until the entire drying period finishes.
- If desired, TEKNODEKO may be painted with house paint. It is recommended to wait for 7 days under normal conditions after the application for painting its cover.
- The equipment should be cleaned immediately after the application before it is hardened yet. They should be cleaned by mechanical methods after it is hardened.

## Technical Data

General Information	
Appearance	White
Shelf Life	12 months in dry environment in its unopened package.
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixture Proportion	6 – 6,5 l water / 25 kg powder
Application Thickness	< 2 mm
Performance Information	
Particle Size	Class S4
Water Vapor Transfer Speed	Class V1
Water Transfer Speed	Class W3
Impact esistance (EN 13497)	> 2 joule
Reaction to Fire	A1

## Consumption Table

<b>Teknodeko</b>	<b>Mixture Density (kg / l)</b>	<b>1 m<sup>2</sup> Powder Consumption (kg)</b>	<b>Amount of Mixture Water (l)</b>
25 kg kraft bag	~1,60	2,4 – 2,8	6 – 6,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknodeko (Fine)

Mineral, Decorative Render (Thin Grain; 1,5 mm)



Public Pos. No: 04.476/D

**Product Description** It is white cement based, one component, polymer modified and water-repellent, fine patterned top coating material used on plaster of buildings' external wall and heat insulation system.

- Areas of Usage**
- At residences, shopping centers and hospitals,
  - For horizontal, vertical and overhead applications,
  - On all kinds of mineral surfaces,
  - As decorative coating on external wall heat insulation systems,
  - As decorative coating on aerated concrete at inner and outer spaces.

- Features and Benefits**
- It is easy to apply and to give shape.
  - It demonstrates high resistance to all kinds of climate conditions.
  - It is resistant against outer weather conditions and water-repellent. It prevents humidity accumulation.
  - It removes the surface defects.
  - It is durable, inflammable, and does not roughen.
  - It provides a homogeneous decorative appearance after application.
  - It clears the steel trowel tracks on the plaster due to its texture.
  - It can be painted by house paints.

**Application Instructions** Surface Quality: The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed. If there are cracks, pits on the surfaces or walls which the applications shall be made, they must be repaired with appropriate TEKNOREP repairing mortars.

Surface Preparation: The surface which it shall be applied on should be wetted slightly. It is recommended to apply TEKNOLATEX 400 as decorative plaster primer before the application in hot weather. TEKNODEKO is added into clean and cold water gradually and stirred approximately for 10 minutes with a low speed mixer until the mixture becomes smooth. The stirred mixture is rested for 5 minutes and stirred again. If necessary, the consistency of the mixture is readjusted by adding water. The required water amount should be adjusted according to the weather conditions. Attention should be given to ensuring that the particles in the product not to be corroded when stirring with machine. Equal amount of water should be used for each lot of mortar mixture. Otherwise, pattern and tone differences may occur on the surface. Prepared mixture should be used within 2 hours depending on the weather conditions. The homogenous mixture prepared is applied on the surface properly via steel trowel and excessive material is removed from the surface in order to obtain a layer with a thickness as of the particles in the product. The pattern should be given within 10 min. at the latest after TEKNODEKO is applied homogeneously on the application surface. The pattern is given by cyclical movements with the aid of plastic or polyurethane trowel in order to obtain fine particle texture. The surface of the trowel must be scratched frequently when giving pattern. The products with same burden numbers should be used on same surfaces. Attention should be given to employ in sufficient number of persons, to apply the material continuously and without interruption until reaching to the jointing ends or detail corners so that there is not any overlapping on the large surfaces.

## Application Notes / Restrictions

- The hardened material should not be used by adding water into it.
- Paint primer must be used necessarily for dark color applications.
- Both for increasing the resistance of TEKNODEKO FINE against pollution and external effects and for preventing the applications which tone diversity occurs due to various reasons, all coating surface must be painted by 2-coat paint.
- Paint consumption changes according to the pattern. The color should be checked before the application. The materials should be purchased depending on the needs.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.
- It should be protected, covered with nylon or exposure of the product to frost should be prevented by applying insulating board plates under environment conditions to be below +5°C.
- It should be protected, covered with nylon or exposure of the product to sudden dehydration should be prevented by applying heat insulation board plates under temperatures over +35°C.
- Do not add foreign substances.
- 6,0 – 7,0 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. TEKNODEKO in the 25 kg. bag in powder form, is emptied in the pot filled with water. It is stirred with a low-speed mixer until a smooth and homogeneous appearance is obtained. Mixture period must be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 m., and stirred again for 2 m. until it becomes homogenous.
- The mixture prepared is applied on the surface properly via steel trowel. The pattern should be given within 5 min. after TEKNODEKO FINE is applied homogenously on the surface by cyclical movements with flat plastic trowel. The surface of the plastic trowel must be cleaned frequently when giving pattern.
- It should not be applied under direct sunlight, in strong wind, fog, at high relative humidity rates or during heavy rains. The application performed should be taken under protection against heating and intensive sunlight depending on various reasons until the entire drying period finishes.
- If desired, TEKNODEKO FINE may be painted with house paint. It is recommended to wait for 7 days under normal conditions after the application for painting its cover. Direct contact to skin should be avoided. It must be protected against rain, wind, and excessive cold and hot for 12 hours for the applications to be made at outer spaces.
- It should be protected against bad weather conditions such as direct sunlight, strong wind, high air temperature (above +35°C), rain and frost after the application. The hands should be cleaned with water and detergent before the product is cured and hardened completely.
- The equipment should be cleaned immediately after the application before it is hardened yet. They should be cleaned by mechanical methods after it is hardened.

### Technical Data

General Information	
Appearance	White
Shelf Life	12 months in dry environment in its unopened package.
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixture Proportion	6,0 – 7,0 l water / 25 kg powder
Application Thickness	1,2 mm Average
Performance Information	
Particle Size	Class S3
Water Vapor Transfer Speed	Class V1
Water Vapor Transfer Speed	Class W3
Reaction to Fire	A1

### Consumption Table

Teknodeko Fine	Mixture Density (kg / l)	1 m <sup>2</sup> Powder Consumption (kg)	Amount of Mixture Water (l)
25 kg kraft bag	~1,60	1,8 - 2,0	6 - 7

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknodeko (Line)

Mineral, Decorative Render (Line, 3 mm)



Public Pos. No: 04.476/D

## Product Description

It is white cement based, one-component, polymer modified and water-repellent, stripe patterned final surfacing material used on plaster of buildings' external wall and heat insulation system.

## Areas of Usage

- At residences, shopping centers and hospitals,
- For horizontal, vertical and overhead applications,
- On all kinds of mineral surfaces,
- As decorative coating on external wall heat insulation systems,
- As decorative coating on aerated concrete at inner and outer spaces.

## Features and Benefits

- It is easy to apply and to give shape.
- Different patterns may be obtained by straight and circular movements.
- It demonstrates high resistance to all kinds of climate conditions.
- It is resistant against outer weather conditions and water-repellent. It prevents humidity accumulation.
- It removes the surface defects.
- It is durable, inflammable, and does not roughen.
- It provides a homogeneous decorative appearance after application.
- It clears the steel trowel tracks on the plaster due to its texture.
- It has water permeability.
- It can be painted by house paints.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed. The surface must be in its plumb line and the weak parts must be removed. If there are cracks, pits on the surfaces or walls which the applications shall be made, they must be repaired with appropriate TEKNOREP repairing mortars.

**Surface Preparation:** The surface which it shall be applied on should be humidified slightly. There must not be wetness and splash. It is recommended to apply TEKNOLATEX 400 as decorative plaster primer before the application in hot weathers.

TEKNODEKO is added into clean and cold water gradually and stirred approximately for 10 minutes with a low speed mixer until the mixture becomes smooth. The stirred mixture is rested for 5 minutes and stirred again. If necessary, the consistency of the mixture is readjusted by adding water. The required water amount should be adjusted according to the weather conditions. Attention should be given to ensuring that the particles in the product not to be corroded when stirring with machine. Equal amount of water should be used for each lot of mortar mixture. Otherwise, pattern and tone differences may occur on the surface. Prepared mixture should be used within 2 hours depending on the weather conditions. The homogenous mixture prepared is applied on the surface properly via steel trowel and excessive material is removed from the surface in order to obtain a layer with a thickness as of the particles in the product. The pattern should be given within 10 minutes at the latest after TEKNODEKO LINE is applied homogenously on the application surface. The pattern is given by cyclical movements with the aid of plastic or polyurethane trowel in order to obtain fine particle texture.

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The surface of the trowel must be scratched frequently when giving pattern. The products with same burden numbers should be used on same surfaces. Attention should be given to employ in sufficient number of persons, to apply the material continuously and without interruption until reaching to the jointing ends or detail corners so that there is not any overlapping on the large surfaces.

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## Application Notes / Restrictions

- The hardened material should not be used by adding water into it.
- Paint primer must be used necessarily for dark color applications.
- Both for increasing the resistance of TEKNODEKO LINE against pollution and external effects and for preventing the applications which tone diversity occurs due to various reasons, all coating surface must be painted by 2-coat paint.
- Paint consumption changes according to the pattern. The color should be checked before the application. The materials should be purchased depending on the needs.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.
- It should be protected, covered with nylon or exposure of the product to frost should be prevented by applying insulating board plates under environment conditions to be below +5°C.
- It should be protected, covered with nylon or exposure of the product to sudden dehydration should be prevented by applying heat insulation board plates under temperatures over +35°C.
- Do not add foreign substances.
- 5,75 – 6,25 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. TEKNODEKO LINE in the 25 kg. bag in powder form, is emptied in the pot filled with water. It is stirred with a low-speed mixer until a smooth and homogeneous appearance is obtained. Mixture period must be minimum 5 minutes. The mortar obtained at the end of the process should be rested for 3 m., and stirred again for 2 m. until it becomes homogenous.
- The mixture prepared is applied on the surface properly via steel trowel. The pattern should be given within 5 minutes after TEKNODEKO LINE is applied homogenously on the surface by cyclical movements with flat plastic trowel. The surface of the plastic trowel must be cleaned frequently when giving pattern.
- It should not be applied under direct sunlight, in strong wind, fog, at high relative humidity rates or during heavy rains. The application performed should be taken under protection against heating and intensive sunlight depending on various reasons until the entire drying period finishes.
- If desired, TEKNODEKO LINE may be painted with house paint. It is recommended to wait for 7 days under normal conditions after the application for painting its cover. Direct contact to skin should be avoided. It must be protected against rain, wind, and excessive cold and hot for 12 hours for the applications to be made at outer spaces.
- It should be protected against bad weather conditions such as direct sunlight, strong wind, high air temperature (above +35°C), rain and frost after the application. The hands should be cleaned with water and detergent before the product is cured and hardened completely.
- The equipment should be cleaned immediately after the application before it is hardened yet. They should be cleaned by mechanical methods after it is hardened.

### Technical Data

General Information	
Appearance	White
Shelf Life	12 months in dry environment in its unopened package.
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixture Proportion	5,75 – 6,25 l water / 25 kg powder
Performance Information	
Particle Size	Class S4
Water Vapor Transfer Speed	Class V1
Water Transfer Speed	Class W3
Reaction to Fire	A1

### Consumption Table

Teknodeko Line	Mixture Density (kg / l)	1 m <sup>2</sup> Powder Consumption (kg)	Amount of Mixture Water (l)
25 kg kraft bag	~1,60	2,8 - 3,2	6 – 6,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 100

## Cement Based Skim Coat Plaster



CE TS EN 1504 – 3, R1

### Product Description

Cement-based, one-component, white, light grey filler, for correction of interior and exterior concrete and plaster surfaces.

### Areas of Usage

- It is used for the repair of gross concrete elements with all kinds of surface defects.
- In all kinds of industrial reinforced concrete structures,
- In repair, repair and reinforced concrete projects,
- Parking lots, shopping malls
- In the repair of prefabricated elements.
- It is suitable for indoor and outdoor use.
- It is suitable for use instead of satin plaster.

### Features and Benefits

- It is mixed with water.
- Economical and easy to be applied.
- Provides smooth surface finish.
- It has excellent adherence on concrete and plastered surfaces.
- Creates a crack-free appearance on large surfaces.
- No need for primer.
- It does not swell with water like gypsum plaster.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts on the surface should be removed.

**Surface Preparation:** Cement slurry and weakened parts should be removed, and there should be no materials such as oil dirt and rust on the surface. Absorbent surfaces must be pre-wetted, but there should be no water droplets or drops.

**Mixing:** 8,5 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. Teknorep 100 in 20 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min. The mortar obtained at the end of the process should be rested for 3 min. and mixed again until it becomes homogenous for 2 min. After the material has entered the reaction, it should not be mixed again with water

### Application Notes / Restrictions

- In cement based products, reaction times are affected by ambient and ground temperatures. Reaction times are shortened in a hot environment, and extend in a cold environment.
- Hot water should be used in cold conditions.
- In hot environments, cold mixing water should be used.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and masks should be used.
- Prepared mortar is applied to the concrete surface with steel trowel by stripping method. Then the necessary amount for leveling is applied to the surface. Applications with wall thickness more than 1 mm. should be made in layers.

- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Color	White - Grey
Shelf Life	12 months in unopened package in dry environment
Package	20 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	8,0 lt water / 20 kg powder
Workability Time	Min. 2 hours
Waiting Time Between Coats	4-5 hours
Time to Put into Service	24 hours
Application Thickness	0-2 mm
Performance Information	
Flexural Strength (28 days)	> 2,5 N/mm <sup>2</sup>
Pressure Resistance (28 days)	> 10 N/mm <sup>2</sup> (TS EN 196-1)
Adhesion Strength (28 days) (TS EN 1542)	> 1,0 N/mm <sup>2</sup>
Fire Response (TS EN 13501-1)	A 1
Temperature Resistance	(- 30°C) - (+ 80°C)

## Consumption Table

Teknorep 100 Thin (Light Gray)	Mixture Density (gr / lt)	1 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~1,6	0,5 – 1,0	8,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 100 Flex

Cement Based, Under Paint Exterior Skim Coat

CE TS EN 1504 – 3, R1

**Product Description** it is cement based, one component, polymer modified and high stability skim coat.

**Areas of Usage**

- For grading the aerated concrete elements having all kinds of surface defects. it is appropriate for external walls.
- On all kinds of industrial reinforced concrete constructions,
- On civil engineering constructions such as metro, highway and dams,
- For repair, mending and reinforcement projects,
- At parking places and shopping centers,
- For repair of prefabricate elements.

**Features and Benefits**

- It is mixed with water.
- Provides smooth surface finish.
- It has excellent adherence on concrete and plastered surfaces.
- It generates a crack-free appearance on large surfaces.
- Primer is not required and it is easy apply.
- It does not swell with water like gypsum plaster.

**Application Instructions**

**Surface Quality:** The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The weak parts must be removed.

**Surface Preparation:** The cement slurry and weakened parts should be removed, and there must not be materials such as grease, dirt and rust on the surface. The absorptive surfaces should be wetted in advance, but there must not be splash and water drops remaining.

**Mixing:** 8 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. Teknorep 100 Flex in the 20 kg bag in powder form, is emptied in the pot filled with water it is stirred with a low-speed mixer until a smooth and homogeneous appearance is obtained. Mixture period must be minimum 5 minutes. The mortar obtained at the end of the process should be rested for 3 m, and stirred again for 2 m until it becomes homogenous.

**Application Notes / Restrictions**

- it should be protected against sun, rain and frost for the first 3 hours for outdoor space applications.
- The reaction times are affected by the ambient and ground temperatures for cement based products. The reaction times are shortened in hot environments and extended in cold environments.
- Hot mixture water should be used in cold environments.
- Cold mixture water should be used in hot environments.
- Working cloths in compliance to labor and worker healthy rules should be worn and appropriate goggles and masks should be used.
- The prepared mortar is applied by steel trowel on the surface using scratching method. Then, the required amount for grading is applied on. The applications having wall thickness more than 2 mm should be made in layers.

- It should be protected against bad weather conditions such as direct sunlight, strong wind, high air temperature (above +35° C), rain and frost after the application. The hands should be cleaned with water and detergent before the product is cured and hardened completely.
- The equipment should be cleaned immediately after the application before it is hardened yet.
- They should be cleaned by mechanical methods after it is hardened.
- It can be used only as scratching in sheathing system. Thick applications may result with cracking.

## Technical Data

General Information	
Color	White
Shelf Life	12 months in unopened package in dry environment
Package	20 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	8,0 lt water / 20 kg powder
Workability Time	Min. 3 hours
Waiting Time Between Coats	2-3 hours
Time to Put into Service	24 hours
Application Thickness	0-2 mm
Performance Information	
Flexural Strength (28 days)	≥ 2,5 N/mm <sup>2</sup>
Pressure Resistance (28 days)	≥ 10 N/mm <sup>2</sup> (TS EN 196-1)
Adhesion Strength (28 days) (TS EN 1542)	≥ 1,0 N/mm <sup>2</sup>
Fire Response (TS EN 13501-1)	A1
Temperature Resistance	(- 30°C) - (+ 80°C)

## Consumption Table

Teknorep 100 Thin (Light Gray)	Mixture Density (gr / lt)	1 mm/ 1m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	~ 1,52	0,5 – 1,0	8,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknorep 110

## Acrylic Based Exterior Skim Coat



**Product Description** It is acrylic based, in flexible structure, external wall skim coat.

### Areas of Usage

- For grading the aerated concrete elements having all kinds of surface defects
- On all kinds of industrial reinforced concrete constructions,
- On civil engineering constructions such as metro, highway and dams,
- For repair, mending and reinforcement projects,
- For repair of prefabricate elements.

### Features and Benefits

- It is mixed with water.
- It provides smooth surface finish.
- It has a perfect adherence on concrete and plastered surfaces.
- It generates a crack-free appearance on large surfaces.
- Primer is not required and it is easy to apply.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The weak parts must be removed. The cement slurry and weakened parts should be removed, and there must not be materials such as grease, dirt and rust on the surface. The absorptive surfaces should be wetted in advance, but there must not be splash and water drops remaining.

**Surface and Ambient Temperature:** +5°C – +35°C

**Mixing:** External Wall Putty is ready for use. The surface must be dust, dirt and grease-free, the roughened areas must be scratched thoroughly, and the surface must be dry before the application. Please continue to stir by using a mixer attached to a low-speed drill bit until obtaining a homogenous mixture (app. 5 min.). Apply the putty that became ready for application to the surface with spatula or steel trowel. After the first layer is dried and hardened completely (24 hours), then the second layer is applied (It is recommended to apply in 1 mm thickness for each).

During the application, care must be given to the ambient and surface temperature as to be between +5°C and +30°C. Do not apply in strong wind and under direct sunlight. Used tools should be cleaned with water after the application finishes. In case the application shall be made at air temperatures above +30°C, the application should be made on shaded faces, and it is not recommended to make application between 10:00 and 15:00.

**Equipment:** The prepared mortar is applied by steel trowel on the surface using scratching method. Then, the required amount for grading is applied on.

**Consumption:** 1,50 kg/m<sup>2</sup> per 1 mm thickness. Consumption may change depending on the surface and workmanship.

Cleaning: It should be protected against bad weather conditions such as direct sunlight, strong wind, high air temperature (above +35°C), rain and frost after the application. The hands should be cleaned with water and detergent before the product is cured and hardened completely.  
Equipment Cleaning: The equipment should be cleaned with water immediately after the application before it is hardened yet. They should be cleaned by mechanical methods after it is hardened.  
Pot Life: At 20°C, approximately 60 minutes.  
Cleanability Time: At 20°C, approximately 75 minutes.

### Application Notes / Restrictions

- It should be protected against sun, rain and frost for the first 3 hours for outdoor space applications.
- Working cloths in compliance to labor and worker healthy rules should be worn and appropriate goggles and masks should be used during the application of the product.

### Technical Data

General Information	
Color	White
Application Thickness	0 – 2 mm
Consumption	0,5 – 1,5 kg/m <sup>2</sup>
Package	25 kg bucket
Shelf Life	12 months in dry environment in its unopened package.

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer Protect

## Water Based Peelable Coating



### Product Description

It is water-based, white Peelable coating which is applied on painted and unpainted numerous horizontal and vertical grounds as protective or temporary masking, and which can be produced as clear or colored.

### Areas of Usage

- In construction sector – Architectural projects, decoration, renovation, etc.
- In Automotive, Furniture, Defense Industry, Advertisement, Vessel and Marine sectors.
- For protection of granite, marble, limestone, natural stone, tile, ceramic, wood parquet or laminated flooring.
- It is a product that can be used on glass, frames, aluminum, PVC and on non-permeable and nonporous other surfaces.

### Features and Benefits

- It does not damage the surface which it is applied on.
- It is applied as applying paint, and it is easily separated from the surface when it dries.
- It can be used indoor and outdoor.
- It is not decomposed easily from the surface, and it does not transmit dust and dirt beneath it.
- It can be applied on uncleaned surface and removes all dust after peeling.
- It keeps your surfaces in their initial forms.
- It eliminates the changing costs to be caused by the damages on the surfaces.
- It is suited for foot traffic.
- It is not affected by sparks and static electricity, is inflammable.
- When peeled there are no residuals remained and it does not require cleaning.
- When damaged, there is possibility for easy patch.
- It is not decomposed easily from the surfaces as the adhesive folios.

### Application Instructions

It is applied on the surface by a standard roll used for normal water-based paints or wide but thin hair brush. Care should be given that the application thickness is sufficient and dry film thickness is at least 200 microns. If protection is required for heavy conditions, one more layer should be applied after 30 – 45 minutes. Perform the application by using a nipple of 517 or 519 via a machine with 200 bars for applications with airless gun. Ensure homogeneity on the surface by one horizontal shot and then one vertical shot when performing the application. Drying is between 2 – 3 hours at +25°C, depending on the outer temperature. For the lower temperatures drying period may increase as the product is water-based. This period is greatly reduced in heated and air circulated areas.

In case TEKNOMER PROTECT Peelable Surface Protection System is not required anymore, you can peel the generated film by pulling it up from its corner or if desired it can be removed by pressured water gun (Removing by a water gun may only be applied in case surfaces are suitable for water).

TEKNOMER PROTECT can be lumped by shrinking it when peeled. You can dispose the waste remaining from TEKNOMER PROTECT in the same category with normal domestic wastes.

## Technical Data

General Information	
Appearance / Color	Green, Clear or Colored
Shelf Life	12 months
Package	In plastic buckets of 3 and 15 kg
Application Information	
Application Temperature	(+10°C) – (+35°C)
Waiting Period Between The Layers	At least 45 minutes
Drying Period	2 – 3 hours
Easy Peeling	At least after 24 hours

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

## Consumption Table

Teknomer Protect	Density (g / l)	1 m <sup>2</sup> consumption (g)
3 - 15 kg bucked	~1,00	250 – 350

# Tekno Machine Plaster (Interior Walls)

Cement Based, Machine Plaster for Interior Walls



It is in compliance with TS EN 998-1 standard.

Public Pos. No: 04.475/A

## Product Description

It is a cement based special plaster used for coating the materials on concrete surfaces at inner spaces and increases the strength of the surface.

## Areas of Usage

- Residences, shopping centers and hospitals,
- For horizontal, vertical and overhead applications,
- On all kinds of reinforced concrete civil engineering constructions.
- In foundations, tunnels and roadside slopes.

## Features and Benefits

- It has high adhesion strength.
- It provides saving on time and workmanship.
- It is easy to apply and give shape.
- It has vapor permeability.
- It is inflammable.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed.

**Surface Preparation:** The dry and absorptive surfaces should be wetted before the application in very hot weathers. The aerated concrete, gas concrete and necessary surfaces should be prepared for plastering by pre-rough or appropriate primer. Pre-rough or primer should cover 100% of the surface and dried completely. Brick may be applied on wall directly. It can be applied with appropriate plastering machines. The material applied with the plastering machine should be sprayed on the surface evenly. The surface should be leveled out with float. When the surface is hardened, the defects on the surface are scraped with a suitable hand tool, and plaster surface is wetted slightly and leveled out with the aid of a sponge. Plaster application thickness should not exceed 25 mm in one time. In order to produce a thicker plaster layer, the first applied should become to a condition to be able to carry the upper layer (at least 1 day). The recommended maximum plaster thickness is 50 mm, it is recommended to use mesh in the second layer, if needed. It is recommended to wet the plaster when needed during the drying period. During application or drying period, the ambient temperature and surface temperature should be between minimum +5°C and maximum +35°C.

## Application Notes / Restrictions

- The product should be protected against frost until it is set. The application should be protected against wetting due to rain or various reasons until its drying period completed.
- In case the ambient and surface temperature exceeds +35°C, the surface should be wetted by spraying method (with non-pressurized water) at certain intervals in order to prevent sudden dehydration and ensure the plaster sets in a good manner.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.

- The next layer / product application should not be made without the products are dried completely (provided that the periods change at current environment conditions).
- During preparation, foreign substances or additives should not be added into the product.

## Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in dry environment in its unopened package
Package	25 kg kraft bag
Maximum Particle Size	1,0 mm
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixture Proportion	4,5 – 5 l of water / 25 kg powder
Performance Information	
Water Vapor Diffusion Coefficient ( $\mu$ )	$\leq 12$ (TS EN 1015-19)
Compressive Strength	$\geq 10,0$ N/mm <sup>2</sup> (TS EN 1015-11)
Bond Strength	$\geq 0,20$ N/mm <sup>2</sup> FP:A (TS EN 1015-12)
Capillary Absorption	W0 (TS EN 1015-18)
Minimum Plaster Thickness	On Walls: 10 mm / On Ceiling: 8 mm
Maximum Plaster Thickness	25 mm for each stage (Maximum 50 mm in total)
Consumption	Approximately 15 kg / m <sup>2</sup> (per 1 cm application)
Reaction to Fire	A1 (TS EN 13501-1)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Tekno Machine Plaster ( Exterior Walls )

Cement Based, Machine Plaster for Exterior Walls



It is in compliance with TS EN 998-1 standard.

Public Pos. No: 04.475/A

## Product Description

It is a cement based special plaster used for coating the materials on concrete surfaces at outer spaces and increases the strength of the surface.

## Areas of Usage

- Residences, shopping centers and hospitals,
- For horizontal, vertical and overhead applications,
- On all kinds of reinforced concrete civil engineering constructions.
- In foundations, tunnels and roadside slopes.

## Features and Benefits

- Filling capability with its coarse-grained texture.
- High resistance against water and compelling weather conditions.
- It provides saving on time and workmanship.
- It is easy to apply and give shape.
- It has vapor permeability.
- It is inflammable.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid and free of substances and residuals preventing adhesion such as all kinds of dust, grease, rust, molding oil, and detergents, etc. The surfaces must be smooth, the weak parts must be removed.

**Surface Preparation:** The dry and absorptive surfaces should be wetted before the application in very hot weathers. The aerated concrete, gas concrete and necessary surfaces should be prepared for plastering by pre-rough or appropriate primer. Pre-rough or primer should cover 100% of the surface and dried completely. Brick may be applied on wall directly. It can be applied with appropriate plastering machines. The material applied with the plastering machine should be sprayed on the surface evenly. The surface should be leveled out with float. When the surface is hardened, the defects on the surface are scraped with a suitable hand tool, and plaster surface is wetted slightly and leveled out with the aid of a sponge. Plaster application thickness should not exceed 25 mm in one time. In order to produce a thicker plaster layer, the first applied should become to a condition to be able to carry the upper layer (at least 1 day). The recommended maximum plaster thickness is 50 mm, it is recommended to use mesh in the second layer, if needed. It is recommended to wet the plaster when needed during the drying period. During application or drying period, the ambient temperature and surface temperature should be between minimum +5°C and maximum +35°C.

## Application Notes / Restrictions

- The product should be protected against frost until it is set. The application should be protected against wetting due to rain or various reasons until its drying period completed.
- In case the ambient and surface temperature exceeds +35°C, the surface should be wetted by spraying method (with non-pressurized water) at certain intervals in order to prevent sudden dehydration and ensure the plaster sets in a good manner.
- Product may irritate the skin in case of contact. Work clothes, protective gloves, mask and goggles should be used. Before starting to work, protective cream may be put on hands. In case the mortar contacts with eyes, eyes should be washed immediately with warm water, and medical advice should be get.

- The next layer / product application should not be made without the products are dried completely (provided that the periods change at current environment conditions).
- During preparation, foreign substances or additives should not be added into the product.

### Technical Data

General Information	
Appearance	Grey
Shelf Life	12 months in dry environment in its unopened package
Package	25 kg kraft bag
Maximum Particle Size	2,0 mm
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixture Proportion	3,5 – 4,5 l of water / 25 kg powder
Performance Information	
Water Vapor Diffusion Coefficient ( $\mu$ )	$\leq 12$ (TS EN 1015-19)
Compressive Strength	$\geq 6,0$ N/mm <sup>2</sup> (TS EN 1015-11)
Bond Strength	$\geq 0,30$ N/mm <sup>2</sup> FP:A (TS EN 1015-12)
Capillary Absorption	W0 (TS EN 1015-18)
Minimum Plaster Thickness	On Walls: 10 mm / On Ceiling: 8 mm
Maximum Plaster Thickness	25 mm for each stage (Maximum 50 mm in total)
Consumption	Approximately 15 kg/m <sup>2</sup> (per 1 cm application)
Reaction to Fire	A1 (TS EN 13501-1)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# WATERPROOFING and COMPLEMENTARY PRODUCTS



# Teknomer 200 Kristalize

Crystallized Waterproofing Material



Public Pos. No: 04.477/3

**Product Description** Emulsion polymer based liquid component, containing waterproofing and workability enhancing chemical additive, waterproofing and concrete protection mortar which is composed of cementitious powdered compound and can be applied negatively or externally (positive) against leakage and surface waters.

**Areas of Usage**

- Indoors and outdoors, in vertical and horizontal applications,
- In wet-volume areas such as bathrooms, showers, wc,
- In water tanks,
- Basic and curtain walls,
- Tunnels,
- In elevator pits,
- In the brine pools,
- In fish breeding ponds,
- It is applied on surfaces such as concrete, plaster, screed.

**Features and Benefits**

- It is resistant to negative and positive water pressure.
- It has high adhesion strength.
- It is not corrosive to steel or steel.
- Applicable on horizontal and vertical surfaces.
- Prevents carbonation in concrete.
- It is resistant to freeze-thawing.
- Easy to apply by brush, roller or spray.

**Application Instructions**

The surface should be free from residues that will prevent adhesion. Care must be taken to ensure that the surface is covered and firm. If there are any defects on the surface to be applied, it should be corrected with TEKNOREP. If active water leak is present, stop using TEKNOPLUG.

The application surface should be protected from sun, rain and dust for 1 day and should not be applied under direct sunlight. Before application, the surface must be soaked in water to saturate it. During application, care should be taken to ensure that the surface is not wet but damp. 2 l of liquid component and 5,0 - 6.0 l of mixing water should be placed in a clean mix bowl; 25 kg of powdered component should be mixed thoroughly so that it does not become a lump by slowly discharging it onto it. The amount of water can be adjusted with the metered bin of the liquid component. It is recommended that the mix be made with a low speed mixer less than 500 rpm.

The mortar should be rested for 5 minutes to mature, then mixed again for 30 seconds before application. The prepared mortar should be applied as 2 or 3 coats with roller or brush. The direction of application on each side should be perpendicular to the previous one. It should be at least 3 hours depending on the temperature between coats. The surface must be slightly moistened for more than 12 hours of waiting time. A total application thickness of approx. 3 mm will suffice.

Corner should be chamfered with the TEKNOMER Chamfer Tapes to the corner of the application place.

## Application Notes / Restrictions

- The prepared mortar should be consumed within 2 hours. Not suitable for high temperature, low humidity, wind this time may be shortened in the application in the ambient conditions. Expired mortar should be discarded. After application, hands and application tools should be washed with plenty of water.
- If TEKNOMER 200 is to be exposed to sunlight or traffic over the applied surface; must be covered with a protective coating material such as alum, ceramic. Application areas should be waited for at least 7 days before receiving or coating. If the application area is a water tank, the product is expected to cure for at least 28 days and after curing the tank is washed with hot water.
- If it is cement based, let the powder breathe, do not touch the skin and the pond. Please refer to the Safety Data Sheet for further information.

## Technical Data

General Information	
Appearance	Component 1: Grey powder; 2.. Component: White liquid
Shelf Life (Powder and Liquid)	12 months in unopened package in dry environment
Package	27 kg Set
Mixture Ratio	2 l of liquid / 5-6 l of water / 25 kg powder
Application Information	
Application Temperature	(+5°C) - (+35°C)
Pot Life	2 hours
Time to Open the Trailer	1 Week
Performance Information	
Water Impermeability	4 bar (negative) 7 bar (positive)
Concrete Adhesion Strength (EN 1542)	≥ 1,00 N/mm <sup>2</sup>
Adhesion Strength Thermal Cycling With De-icing Salt Impact (EN 13687-3 / EN 1542)	≥ 1,00 N/mm <sup>2</sup>
Bond Strength After Heat Aging (EN1062-11 / EN 1542)	≥ 1,00 N/mm <sup>2</sup>
Water Vapor Transmision Rate (EN ISO 7783)	Class 1; Sd < 5 m
Water Transmision Rate (EN 1062-3)	< 0.1 kg / m <sup>2</sup> h <sup>0.5</sup>
Temperature Resistance	(-30°C) - (+80°C)
Hazardous Substances	See the safety data sheet
Fire Classification	Bs 1d0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer 200 Ex Kristalize

## Two Component Crystallized Waterproofing Material



Public Pos. No: 04.477/2

### Product Description

Full elastic waterproofing and concrete protection mortar which can be applied negatively or externally (positively) against leakage and surface water, consisting of cement based powder compound containing emulsion polymer based liquid component, water impermeability and workability enhancing chemical additives.

### Areas of Usage

- Indoors and outdoors, in vertical and horizontal applications,
- In wet rooms like bathrooms, showers, wc,
- In wet, wet and damp areas such as garage, balcony, terrace and pantry,
- In the foundation and curtain walls, in the elevator pit, on the outer walls of the basements,
- In the tunnels, in the healing of old structures,
- On both the positive and negative sides,
- It is applied on surfaces such as concrete, plaster, screed.

### Features and Benefits

- It is resistant to negative and positive water pressure.
- It has high adhesion strength
- It is not corrosive to steel or steel.
- Applicable on horizontal and vertical surfaces.
- Prevents carbonation in concrete.
- All types of stone and stone derived bricks, pumice bricks, briquettes, gazebos, concrete blocks, limestone and so on. brick and plastered surfaces.
- It is resistant to freeze-thawing.
- Easy to apply by brush, roller or spray.

### Application Instructions

The surface should be free from residues that will prevent adhesion. Care must be taken to ensure that the surface is covered and firm. If there are any defects on the surface to be applied, it should be corrected with TEKNOREP 300. If active water leak is present, stop using TEKNOPUG.

The application surface should be protected from sun, rain and dust for 1 day and should not be applied under direct sunlight. Before application, the surface must be soaked in water to saturate it. During application, care should be taken to ensure that the surface is not wet but damp.

10 l of liquid component should be taken in a clean mix bowl and 25 kg powder mortar should be slowly poured onto it and mixed thoroughly so that no lumps remain. The amount of water can be adjusted with the metered bin of the liquid component. It is recommended to mix for at least 5 minutes with a low speed mixer less than 500 rpm. Mortar should be rested for 2-3 minutes to mature, stir for 2-3 minutes before starting to apply.

The prepared mortar should be applied as 2 or 3 coats with roller or brush. The direction of application on each side should be perpendicular to the previous one. It should be at least 3 hours depending on the temperature between coats. The surface must be slightly moistened for more than 12 hours of waiting time. A total application thickness of approx. 3 mm will suffice. Corner should be chamfered with Teknomer Pah Bandi to the corner of the application place. The prepared mortar should be consumed within 2 hours. This can be shortened in applications that are carried out under unfavorable ambient conditions such as high temperature, low humidity, wind. Expired mortar should be discarded. After application, hands and application tools should be washed with plenty of water. After application, the surface should be protected from direct sunlight, frost and wind for at least 1 day.

- If the TEKNOMER 200 EX is to be exposed to the sun, sunlight or traffic on the applied surface; must be covered with a protective coating material such as alum, ceramic.
- Application areas should be waited for at least 7 days before receiving or coating. If the application area is a water tank, the product is expected to cure for at least 28 days and after curing the tank is washed with hot water.
- If it is cement based, let the powder breathe, do not touch the skin and the pond. Please refer to the Safety Data Sheet for further information

### Technical Data

<b>General Information</b>	
Appearance	Component 1: Grey powder; 2.. Component: White liquid
Shelf Life (Powder and Liquid)	12 months in unopened package in dry environment
<b>Application Information</b>	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	10 lt of liquid / 25 kg powder
Mixing	~ 3min. Max. With 500 rpm mixer
Pot Life	45 min.
Consumption (for 1 mm Thickness)	1.4 kg/m <sup>2</sup>
Waiting Time Between Coats	3-6
Time To Put Into Service	1 Week
<b>Performance Information</b>	
Water impermeability	10 bar (negative) 10 bar (positive)
Adhesion Strength (EN 14891)	≥ 1,00 N/mm <sup>2</sup>
Concrete Adhesion Strength (EN 1542)	≥ 0.80 N/mm <sup>2</sup>
Water Vapor Transmission Rate (EN ISO 7783)	Class; Sd <5 m
Water Transmission Rate (EN 1062-3)	< 0.1 kg/m <sup>2</sup> h <sup>0,5</sup>
Crack Bridging (EN 1062-7)	0,5 mm -1,25 mm A3 Class
Crack Bridging - Netted Application (EN 1062-7)	> 2,50 mm

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

## Teknomer 100

### Crystallized Waterproofing Material



Public Pos. No: 04.477/3

**Product Description** Cement based, single component, applied to concrete mixture or concrete surfaces, crystallized structure waterproofing material that reacts with water coming from the concrete.

- Areas of Usage**
- Elevator pits,
  - Water storage, swimming and ornamental pools,
  - Reinforced concrete pipes,
  - As a concrete additive that provides crystallized insulation during concrete casting,
  - In the ruin and infrastructure materials,
  - Basically, on the basement walls,
  - In engineering constructions such as metro, tunnel, dam, highway,
  - It is used for negative and positive water insulation of buildings like basement walls.

- Features and Benefits**
- The crystallization feature effectively prevents the passage of water from the surface.
  - Resistant to positive and negative water pressure.
  - It is easy to use, mixed with plain water and used.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. In case of segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 100 application should be started 3-4 days later.

Make sure that the slab or concrete is thrown in the direction of the water stream. The correct control of the curve is made in the following way. Beginning from the beginning to the gauge, put a scale on it. If it is determined that there is no inclination or reverse slope in the control result, the application should not be started and the direction of the water flow should be adjusted by performing concrete and slab treatment. If necessary, additional screed or concrete must be poured.

Surface Preparation: If the surface to be insulated is dry, it should be wetted and ready to be applied to the water.

6,0-7,0 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. The powder is in the vessel filled with water and the Teknomer 100, which is in the 25 kg bag, is emptied. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be at least 5 minutes, the mortar obtained at the end of the process should be rested for 3 min. and mixed again until it becomes homogenous for 2 min.

The application of TEKNOMER100 is done in three ways;

- By brush: On dry floors, the concrete surface is moistened and saturated with water. There may be moisture on the surface, not condensation or ponding. If there is continuous water, leakage should be stopped with TEKNOPLUG. Then the prepared mixture is applied to the surface 2-3 times with brush. Application can be made by hard bristle brush or mechanical spraying method. The application is completed from first left to right, second to top down. The waiting time between floors is as follows. When the concrete floor is checked manually, if the TEKNOMER 100 does not leave a mark, the other layer can be applied.

- Hand Sprinkle Method: TEKNOMER 100 is sprinkled on the grobeton before the concrete is poured. Depending on the demand TEKNOMER 100 Then concrete is poured.

The TEKNOMER 100 admixture, which is determined according to the cement dosage of the concrete in the transmixer, is mixed with a low speed drill in a suitable container with about 7-7.5 kg water by weight and turned into an aqueous slurry. The prepared mixture is added to the rotating transmixer. Each mixture should be prepared with at most one cup of TEKNOMER 100 and added to the concrete. In order to obtain a homogeneous mixture, the mixing time in the transmixer should be about 4-5 minutes.

## Application Notes / Restrictions

- Follow work safety precautions. Use gloves, mask, glasses when using the product.
- Since it's cement based, do not breathe its dust, prevent contact with skin and hands.
- Do not apply to wood, chipboard, mdf, plywood, PVC and metal surfaces.
- Only the specified amount of water can be used in the mixture. No more water should be added.
- Foreign materials should not be added.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey Colored Powder
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	6-7 l of water / 20 kg powder
Pot Life	20 min.
Time To Put Into Service	5 Days
Performance Information	
Concrete Adhesion Strength (EN 1542)	≥ 1.0 N / mm <sup>2</sup>
Water impermeability	7 bar (Negative and Positive direction)
Capillary Water Intake Value (EN 1062-3)	≤ 0.1 kg / m <sup>2</sup> .h <sup>0.5</sup>
Water Vapor Transfer (EN ISO 7783)	Class; Sd < 5 (Sd: Equivalent air layer thickness)
Temperature Resistance	(-25°C) - (+80°C)
Hazardous Substances (EN 12004)	See the safety data sheet
Fire Response	A1

## Consumption Table

Teknomer 100	Mixture Density (kg / liter)	1 m <sup>2</sup> for 2 floors Powder Consumption (kg)	Mixture Water Amount (liters)
25 kg kraft bag	~1,98	~2	6-7

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

## Teknomer 110

### Surface Applied Capillary Waterproofing Product



Public Pos. No: 04.477/3

#### Product Description

Cement based, single component, applied to concrete surfaces, reacts with water forming a crystallized structure waterproofing material, which blocks the passage of water and increases its effect as the water comes in.

#### Areas of Usage

- Elevator pits,
- Water storage, swimming and ornamental pools,
- Reinforced concrete pipes,
- In the ruin and infrastructure materials,
- Basically, on the basement walls,
- In engineering constructions such as metro, tunnel, dam, highway,
- It is used for negative and positive water insulation of buildings like basement walls.

#### Features and Benefits

- Effectively prevents water from passing through the surface due to crystallization.
- It is resistant to positive and negative water pressure.
- It is easy to use, mixed with plain water and used.

#### Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 110 application should be started 3-4 days later.

Make sure that the slab or concrete is thrown in the direction of the water stream. The correct control of the curve is made in the following way. Beginning from the beginning to the gauge, put a scale on it. If it is determined that there is no inclination or reverse slope in the control result, the application should not be started and the direction of the water flow should be adjusted by performing concrete and slab treatment. If necessary, additional screed or concrete must be poured. If the surface to be insulated is dry, it should be wetted and ready to be applied to the water.

The TEKNOMER 110 admixture, which is determined according to the cement dosage of the concrete in the transmixer, is mixed with a low speed drill in an appropriate container with about 7-7.5 kg of water and turned into an aqueous slurry. The prepared mixture is added to the rotating transmixer. Each mixture should be prepared with a maximum of one cup of TEKNOMER 110 and should be added to the concrete. In order to obtain a homogeneous mixture, the mixing time in the transmixer should be about 4-5 minutes.

#### Application Notes / Restrictions

- It should be used as max. 7kg per 1 m<sup>3</sup>.
- 2% of the cement dosage should be used.
- To prevent clumping, do not throw TEKNOMER 110 in powder form.
- After TEKNOMER 110 is added, the transmixer should never be stopped until the concrete is poured.
- After concrete casting, concrete surface should be cured with TEKNOKUR 100.
- If it is cement based, let the powder breathe, do not touch the skin and the pond.
- Foreign materials should not be added.

## Technical Data

General Information	
Appearance	Grey Colored Powder
Shelf Life	12 months in unopened package in dry environment
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Ratio	7-7,5 l water / 25 kg powder
Mixing Time	5-6 min for Bucket / 5 min for At Transmixer
Mortar Density	~ 2 gr / liter
Hazardous Substances	See the safety data sheet.

## Consumption Table

Teknomer 110	Mixture Density (kg / liter)	1 m <sup>2</sup> for 2 floors Powder Consumption (kg)	Mixture Water Amount (liters)
25 kg kraft bag	~2,12	2,1	7-7,5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20 ° C air temperature and 50% relative air humidity.

# Teknomer 120

## Capillary Crystallized Liquid Waterproofing Concrete Admixture



### Product Description

Water-impermeable concrete admixture that reacts with the chemical substances in the structure, moisture in the concrete and free lime in the crystallized structure, and waterproofing in the negative and positive direction.

### Areas of Usage

- On the bases, on reinforced concrete walls,
- Fore pit tents,
- In swimming pools,
- Underground car parks,
- Tunnels,
- Dams,
- In precast concrete elements,
- in drinking water and waste water tanks,
- In treatment water plants,
- In swimming pools,
- Used in mass concrete.

### Features and Benefits

- It makes concrete impermeable to water pressure on positive and negative sides.
- It saves labor and time cost.
- It is the most suitable solution for bored pile foundation insulation.
- Since it is liquid, it does not agglomerate during mixing.
- It is always active.
- Protect concrete reinforcement against corrosion.
- Concrete does not prevent breathing.
- Increase strength and freeze-thaw strength of concrete.
- It does not contain chlorine, it does not damage the equipment.
- It's easy to use.

### Application Instructions

Add 2-3% to TEKNOMER 120 concrete mixer and mix for 3-5 minutes. Pre-testing is recommended for different applications.

It should be noted that the ratio of cement water mixture of concrete to be joined to TEKNOMER 120 is less than 0,55. TEKNOMER 120 is thoroughly mixed before use. The duration of the study is 45 minutes after the TEKNOMER 120 participated in the betting. It is useful to use a set retarder when CEM II and III type Portland cement is used. Compliance tests must be performed before use. If TEKNOMER 120 is stored below +8°C, crystallization may occur. The material can be used again after mixing and homogenizing.

## Application Notes / Restrictions

- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened. We protect you against freezing.
- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Do not add foreign matter.
- If the added Teknomer 120 humps from the amount of water, the strength increase will also be seen.

## Technical Data

General Information	
Color / Appearance	Transparent brown liquid
Package	30 kg drum, 200 kg drums
Shelf life	The cover can be stored in its unopened package for 12 months.
Density (kg/l)	1,12 (± 0,03)
Structure	inorganic Mixture
PH	>10

## Consumption

If the water / cement ratio is  $\leq 0.45$ , it is 2% of the weight of the cement in the concrete mixture  
If the water / cement ratio is  $\sim 0.45$ , it is 2,5% of the weight of the cement in the concrete mixture  
If the water / cement ratio is  $\sim 0.45$ , it is 3% of the weight of the cement in the concrete mixture

# Tekno 1

Waterproofing Liquid Concrete Admixture.



Public Pos. No: 04.613/A

**Product Description** Reacting with cement and sand in the mixture of concrete and mortar, ready-to-use, liquid water impermeability concrete admixture.

**Areas of Usage**

- In foundations,
- Channels,
- Pool, Water storage,
- In engineering structures such as metro, highways, dams,
- In water ponds and all concrete applications.

**Features and Benefits**

- Ready to be applied.
- It is economical.
- The span does not have an effect on the setting time and strength.
- Since it does not contain chlorine, it does not harm concrete.
- Concrete does not cause corrosion of the equipment in the structure.
- It allows the surface to breathe while blocking water penetration.

**Application Instructions**

Shake the product before use.

1 Unit Tekno 1 with 10 units of clean water thoroughly mix in a clean container. In order to obtain better results, it is suggested to mix the water with Tekno 1 in equal quantity first and then add the rest of the water.

Walls: Apply the mortar mixed to a smooth consistency with a steel towel to be 6 mm thick in each layer. The second coat should be applied after the first coat begins to harden (usually 4-5 hours). If the second coat is to be applied four times, apply a 'thin' mortar layer prepared with water only to increase the adhesion of the last coat after the third coat application. The intermediate layers should not be etched for roughening in order to obtain better adhesion strengths. The last coat application should be done with wooden trowel to prevent sherbet residues from forming on the surface.

First coat (1:1): The dry mixture should contain the same amount of cement and sand (passing through a 3 mm elbow). Then the TEKNO 1 mixture is added and mixed.

Second coat (1:1,5): Prepare the mixture of 1:1.5 cement: sand (passing 3 mm eilet) and add TEKNO 1 mixture.

Third coat (1:2,5): The dry mix ratio should be 1:2.5 (cement: sand). Add the mixture of TEKNO 1 and mix.

Finish coat (1:1) (on second or third coat): Dry mix should be applied with 1:1 (volume) cement: sand and mortar produced without adding TEKNO 1.

For best results, the cement should be fresh Portland cement. Sand; It should be clean, angular and small in size of 3 mm. Soft and round grain sand is not useful.

Flooring: Application with primer (Water, TEKNOLATEX, sand, cement) application and normally two layer brush is as follows;

Bonding coat (1:1): After the mixture of cement and sand, TEKNO1 mixture is added, mix until a plastic consistency is obtained.

Main ground coat (1:2,5): When the mixture is semi-dry, place on a still wet layer of adhesive so that it is not thinner than 28 mm, and knock the moisture up to the surface. Fix the surface with a wooden trowel.

## Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and appropriate glasses and mask should be used.
- The hands should be washed with soap and water on skin contact. In case of contact with eyes, always consult a doctor.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

## Technical Data

Chemical composition	Inorganic Compounds
Package	30 kg Drum / 200 kg Drum
Color	Yellow
Density (kg/lt)	1.05 ± 0.03
PH	10 ±1

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

## Teknomer 200

Cement and Acrylic Based, Two Component,  
Semi Flexible Waterproofing Material



Public Pos. No: 04.477/1

EN14891, CE EN1504-2

**Product Description** It is a two component, semi-flexible waterproofing material consisting of a combination of liquid polymers and special additives.

- Areas of Usage**
- In concrete and cement mortars and plastered surfaces in indoor and outdoor environments, as waterproofing,
  - For curtain and wall insulation,
  - Concrete is made in non-moving areas,
  - For wet volume waterproofing,
  - Water storage, swimming and ornamental pools,
  - Wet spaces such as bathroom, wc, balcony,
  - It is used in engineering constructions such as metro, tunnel, dam, highway.

- Features and Benefits**
- Can be used indoors and outdoors. When applied in outdoors, it is necessary to cover the floor.
  - Drinking water is suitable for the theme.
  - It does not shrink or crack.
  - It is suitable for horizontal and vertical applications.
  - It does not contain corrosive and toxic substances and can be used in drinking water tanks.

**Application Instructions**

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, broken and loose parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 200 should be applied 3-4 days later. Make sure that the slab or concrete is thrown in the direction of the water stream. The correct control of the curve is made in the following way. Beginning from the beginning to the gauge, put a scale on it. If it is determined that there is no inclination or reverse slope in the control result, the application should not be started and the direction of the water flow should be adjusted by performing concrete and slab treatment. If necessary, additional screed or concrete must be poured. If the surface to be insulated is dry, it should be made ready for application by ensuring that it becomes wet and saturated with water. Tapered corners and edges should be chamfered with TEKNOREP thick repair mortar. TEKNOMER Champer Tapes should be applied to all the corners before ceramic tiles on wet floors and balconies.

After TEKNOMER 200 is thoroughly mixed and rested, the water is applied to the saturated surface with the help of a brush and trowel without losing its moisture. Following the first coat, second coat is applied in the perpendicular direction of the first coat. If application is made on screed, flexible waterproofing files should be used between floors. Waiting time between floors; After the application of the 1st coat, it can be applied to the other floors when there is no trace on the fingers.

The liquid B component of TEKNOMER 200 is first poured into a clean container which is free from all sorts of substances that prevent adhesion. The compound TEKNOMER 200 A in powder form is then poured slowly. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be at least 5 minutes, the mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes.

## Application Notes / Restrictions

- Since it's cement based, do not breathe it dust, prevent contact it with skin and hands.
- Do not apply to wood, chipboard, mdf, plywood, PVC and metal surfaces.
- Only the liquid should be used in the mixture. Absolutely no water should be added.
- Foreign materials should not be added.
- Protection is required to achieve long-term performance expected from the product. Tiles, ceramics, plaster and screed should be applied after 3 days in order to protect against punctures, scratches and crushes which may occur after application.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Color	A Component grey, powder; B Component white, liquid
The Color of the Mixture	Grey
Package	25 kg set
Shelf Life	12 months in unopened package in dry environment
Application Information	
Mixture Density	1,78 (± 0,50) kg / lt
Time to Put into Service	At least 3 days
Performance Information	
Adhesion Strength	≥ 0.8 (28 days) N/mm <sup>2</sup> (TS EN 1542)
Water Transfer Rate	< 0.1 kg / m <sup>2</sup> /h (TS EN 1062-3)
Water Vapor Transfer Rate	< 0.6 gr / (h.cm <sup>2</sup> ) (TS EN ISO 7783-2)
Pressurized Water Resistance	5 Bars Positive
Heat Resistance of the Cured Product	(-25°C) - (+80°C)
Hazardous Substances	According to Article 5.3
Fire Response	Bs1d0
Quality Certificate	TS EN 1504-2, EN 14891

## Consumption Table

Teknomer 200	Mixture Density (kg / liter)	1m <sup>2</sup> for 2 floors Powder Consumption (kg)
25 kg set	~1,75	2,5 – 3,0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

## Teknomer 200 Ex

Cement and Acrylic Based, Two Component,  
Flexible Waterproofing Material



TS EN 14891, CE TS EN 1504-2

Public Pos. No: 04.477/1

### Product Description

Two component, cement and acrylic based, polymer reinforced, fully elastic, waterproofing with special additives. It is applied internally or externally on concrete, curtain and cement based plots against leakage and surface waters.

### Areas of Usage

- Houses, shopping centers, hospitals,
- In vertical and horizontal applications in interior and exterior spaces,
- In its basic insulation and retaining walls,
- In facilities such as hot springs and baths,
- Water storage, swimming and ornamental pools,
- On the terraces (with the condition of being protected)
- It is used in wet spaces such as bathroom, wc, balcony.

### Features and Benefits

- Water is not required.
- Hand or spray can be applied.
- The working period is long.
- It does not shrink or crack.
- It can be applied to fresh screed and concrete surfaces thanks to crack bridging feature.
- It prevents carbonation in concrete
- It does not contain corrosive and toxic substances and can be used in drinking water tanks.
- Protects concrete against sea water and carbon dioxide gas to ice-melting salts such as calcium and sodium chloride.
- It has high resistance to chlorine ions.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. Make sure that the slab or concrete is thrown in the direction of the water stream. The correct control of the curve is made in the following way. Beginning from the beginning to the gauge, put a scale on it. If it is determined that there is no inclination or reverse slope in the control result, the application should not be started and the direction of the water flow should be adjusted by performing concrete and slab treatment. If necessary, additional screed or concrete must be poured.

**Surface Preparation:** If the surface to be insulated is dry, it should be wetted and ready to be applied to the water. Tapered corners and edges should be chamfered with TEKNOREP 300 thick repair mortar. TEKNOMER Champer Tapes should be applied to all the comers beforehand on ceramic floors and wet rooms and balconies.

20 kg of powdered mortar should be mixed thoroughly so that no lumps are left by pouring slowly onto 10 l of liquid component. It is recommended that the mix be made with a low speed mixer less than 500 rpm. For the mortar to mature, it should be rest for 5 minutes and it should be mixed again for 1-2 minutes before application. The prepared mortar should be applied as 2 coats with roller or brush. Wait 5-6 hours depending on the temperature between coats. The coats should be applied perpendicular to each other. A total application thickness of 2-3 mm will suffice.

## Application Notes / Restrictions

- Care should be taken not to damage the insulation material mechanically during the coating process.
- Since it's cement based, do not breathe it dust, prevent contact it with skin and hands.
- Do not apply to wood, chipboard, mdf, plywood, PVC and metal surfaces.
- Only the liquid should be used in the mixture. Absolutely no water should be added.
- Foreign materials should not be added.
- Protection is required to achieve long-term performance expected from the product. Tiles, ceramics, plaster and screed should be applied after 3 days in order to protect against punctures, scratches and crushes which may occur after application.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.
- After TEKNOMER 200 EX is thoroughly mixed and rested for 3-5 minutes, the water is applied to the saturated surface with the aid of brush and / or trowel without losing its moisture. After receiving the first set of material, 2. layer application is done in the perpendicular direction of the first layer application. If desired, it can be used as carrier glass fiber reinforcement throughout the floors. Waiting time between floors; one. After the application of the 1st coat, it can be applied to the other floors when there is no trace on the fingers.

## Technical Data

General Information	
Color	Component A, grey, powder; B Component white, liquid
The Color of the Mixture	Grey
Package	30 kgs. set
Shelf Life	12 months in unopened package in dry environment
Application Information	
Water Vapor Transfer Rate	Class; Sd < 5 (TS EN ISO 7783)
Time to Put into Service	3-7 days
Mixture Density	1,8 (± 0,50) kg/lt
Pot Life	6 hours
Waiting Time Between Coats	5-6 hours
Performance Information	
Adhesion Strength	≥ 1.0 N/mm <sup>2</sup> (TS EN 1542)
Capillary Water Absorption Value	< 0.1 kg / (m <sup>2</sup> h <sup>0.5</sup> ) (TS EN 1062-3)
Crack-bridging.	> 2.5 mm (A5) (EN 1062-7)
After Thermal Aging Adhesion Strength	≥ 1.0 N/mm <sup>2</sup> (EN 1062-11: EN 1542)
Pressurized Water Resistance	7 Bars Positive
Water Vapor Transfer	Class ; Sd < 5 (EN ISO 7783)
Chlorine Ion Diffusion	≤ 200 Coulomb (Class: Very low permeability) (ASTMC1202)
Carbon dioxide permeability	Sd > 50 m (Sd: Equivalent air layer thickness) EN 1062-6)
Without Defrosting Salt Effect Adhesion Strength	≥ 1,0 N/mm <sup>2</sup> (EN 13687-3 / EN 1542)
Tempered Product Heat Resistance	(-40°C) - (+80°C)
Hazardous Substances	According to Article 5.3
Fire Response	Cs1d0

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**Consumption Table**

<b>Teknomer 200 Ex</b>	<b>Mixture Density (kg / liter)</b>	<b>1m<sup>2</sup> for 2 floors Powder Consumption (kg)</b>
30 kg set	~1,80	2,5 – 3

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer 200 Ex W

Cement and Acrylic Based, Two Component,  
Flexible Waterproofing Material, White Color



Public Pos. No: 04.477/1

## Product Description

UV resistant, two component, white colored, cement and acrylic based, polymer reinforced, with special additives, fully elastic, waterproofing material. It is applied internally or externally on concrete, curtain and cement based plots against leakage and surface waters.

## Areas of Usage

- Houses, shopping centers, hospitals,
- In vertical and horizontal applications, both indoors and outdoors,
- In its basic insulation and retaining walls,
- In facilities such as hot springs and baths,
- Water storage, swimming and ornamental pools,
- Terraces, balconies and fences without the need to cover it,
- It is used in wet spaces such as bathroom, wc, balcony.

## Features and Benefits

- No need for water,
- Can be applied manually or by spraying,
- The working period is long,
- It has UV resistance,
- It does not shrink or crack,
- It can be applied to fresh screed and concrete surfaces thanks to crack bridging feature,
- It prevents carbonation in concrete,
- It does not contain corrosive and toxic substances and can be used in drinking water tanks.
- Protect concrete against sea water and carbon dioxide gas to ice-melting salts such as calcium and sodium chloride.
- It has high resistance to chlorine ions.

## Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. Make sure that the slab or concrete is thrown in the direction of the water stream. The correct control of the curve is made in the following way. Beginning from the beginning to the gauge, put a scale on it. If it is determined that there is no inclination or reverse slope in the control result, the application should not be started and the direction of the water flow should be adjusted by performing concrete and slab treatment. If necessary, additional screed or concrete must be poured. **Surface Preparation:** If the surface to be insulated is dry, it should be wetted and ready to be applied to the water. Tapered corners and edges should be chamfered with TEKNOREP 300 thick repair mortar. TEKNOMER Champer Tapes should be applied to all the comers beforehand on ceramic floors and wet rooms and balconies.

20 kg of powdered mortar should be mixed thoroughly so that no lumps are left by pouring slowly onto 10 l of liquid component. It is recommended that the mix be made with a low speed mixer less than 500 rpm. For the mortar to mature, it should be rest for 5 minutes and it should be mixed again for 1 - 2 minutes before application. The prepared mortar should be applied as 2 coats with roller or brush. Wait 5-6 hours depending on the temperature between coats. The coats should be applied perpendicular to each other. A total application thickness of 2-3 mm will suffice.

After TEKNOMER 200 EX W is thoroughly mixed and rested for 3-5 minutes, the water is applied to the saturated surface with the aid of brush and / or trowel without losing its moisture. After receiving the first set of material, 2. layer application is done in the perpendicular direction of the first layer application. If desired, it can be used as carrier glass fiber reinforcement throughout the floors. Waiting time between floors; After the application of the first coat, when there is no mark on the fingers in the manual control, it can be passed to the other floors.

## Application Notes / Restrictions

- Care should be taken not to damage the insulation material mechanically during the coating process.
- Since it's cement based, do not breathe it dust, prevent contact it with skin and hands.
- Do not apply to wood, chipboard, mdf, plywood, PVC and metal surfaces.
- Only the liquid should be used in the mixture. Absolutely no water should be added.
- Foreign materials should not be added.
- Protection is required to achieve long-term performance expected from the product. Tiles, ceramics, plaster and screed should be applied after 3 days in order to protect against punctures, scratches and crushes which may occur after application.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water.
- After the product is hardened, it should be cleaned by mechanical methods

## Technical Data

General Information	
Color	Component A, gray, powder; B Component white, liquid
The Color of the Mixture	Grey
Package	30 kgs. set
Shelf Life	12 months in unopened package in dry environment
Application Information	
Water Vapor Transfer Rate	Class 1; Sd <5 (TS EN ISO 7783)
Time to Put into Service	3-7 days
Mixture Density	1,8 (± 0,50) kg/lt
Pot Life	6 hours
Waiting Time Between Coats	5-6 hours
Performance Information	
Adhesion Strength	≥ 1.0 N/mm <sup>2</sup> (TS EN 1542)
Capillary Water Absorption Value	< 0.1 kg / (m <sup>2</sup> h <sup>0.5</sup> ) (TS EN 1062-3)
Crack-bridging.	> 2.5 mm (A5) (EN 1062-7)
After Thermal Aging Adhesion Strength	≥ 1.0 N/mm <sup>2</sup> (EN 1062-11: EN 1542)
Pressurized Water Resistance	7 Bars Positive
Water Vapor Transfer	Class 1 ; Sd < 5 (EN ISO 7783)
Chlorine Ion Diffusion	≤ 200 Coulomb (Class: Very low permeability) (ASTMC1202)
Carbon dioxide permeability	Sd > 50 m (Sd: Equivalent air layer thickness) EN 1062-6)
Without Defrosting Salt Effect Adhesion Strength	≥ 1,0 N/mm <sup>2</sup> (EN 13687-3 / EN 1542)
Tempered Product Heat Resistance	(-40°C) - (+80°C)
Hazardous Substances	According to Article 5.3
Fire Response	Cs1d0

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**Consumption Table**

<b>Teknomer 200 Ex W</b>	<b>Mixture Density (kg / liter)</b>	<b>1m<sup>2</sup> for 2 floors Powder Consumption (kg)</b>
<b>30 kg set</b>	~1,80	2,5 – 3,4

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer 300

## Acrylic Based Elastic Waterproofing Material



CE TS EN 1504-2 ve EN 14891

Public Pos. No: 04.509

**Product Description** Elastomeric acrylic resin based, single component, elastic waterproofing material.

### Areas of Usage

- Water storage, swimming and ornamental pools,
- On the sloping roof terrace,
- Wet spaces such as bathroom, wc, balcony,
- Silo warehouses and exterior of the buildings,
- It is used as elastic waterproofing material on reinforced concrete, galvanized sheet, polyurethane foam, zinc, PVC fringe, hidden creek surfaces.

### Features and Benefits

- Resistance to long-life cracking is high because flexibility at low temperatures is high.
- Full impact resistance (important for terraces).
- Very good adherence even on difficult surfaces.
- Very good protection against carbonation.
- Very good resistance to polluted water passage.
- Apply directly by brush or roller.
- It can be painted and coated with ceramic.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. The application of the Teknomer 300 should be started 3-4 days later.

Make sure that the slab or concrete is thrown in the direction of the water stream. The correct control of the curve is made in the following way. Beginning from the beginning to the gauge, put a scale on it. If it is determined that there is no inclination or reverse slope in the control result, the application should not be started and the direction of the water flow should be adjusted by performing concrete and slab treatment. If necessary, additional screed or concrete must be poured. **Surface Preparation:** Water should be removed on the surface and removed if there is ponding. Teknomer Pah Bandi should be applied to all the corners beforehand on ceramic floors and wet rooms and balconies.

### Application Notes / Restrictions

- Foreign materials should not be added.
- Protection is required to obtain long-term performance expected from the product. After application tiles, ceramic, plaster, screed should be made after 3 days to protect against any punctures, scratches and bumps.
- Application should be avoided in very humid and / or very hot weather.
- It should not be applied on surfaces that are frozen, melted or dangerous to frost within 24 hours.
- It is mixed in a clean container which is free from all kinds of materials that prevent adhesion or in a low speed mixer in its package until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.

- After TEKNOMER 300 is thoroughly mixed and rested, the water is applied to the saturated surface with the aid of a brush and / or trowel without losing its moisture.
- 50% water can be added to TEKNOMER 300 depending on the absorbency of the surface. After drying the primer coat, the first coat of Teknomer 300 is applied to the entire surface with a roller or brush. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors. The waiting time between coats is at least 5 hours. After the application of the 1st coat, it can be applied to the other floors when there is no trace on the fingers. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.
- If the first coating application is made from left to right, the Teknomer 300 should be applied after the dry layer and the second layer should be in the perpendicular direction.
- TEKNOMER 300 is curing with air. The curing time is long at low temperatures and the time is short at high temperatures. If a water test is to be carried out or to be manufactured on it, it is necessary to make sure that the product is completely dried and hardened. Otherwise, you should avoid making the application.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Color	White
Appearance	20 kg bucket
Shelf Life	12 months in unopened package in dry environment
Application Information	
Time to put into Service	At least 3 days
Waiting Time Between Coats	5 hrs
Water Proof Time	7 days
Consumption	1,53 kg/m <sup>2</sup> (For 1 mm Dry Film Thickness)
Performance Information	
Adhesion Strength	≥ 1.0 (28 days) N/mm <sup>2</sup> (TS EN 1542)
Water Transfer Rate	< 0.1 kg / m <sup>2</sup> . h <sup>0.5</sup> ) (TS EN 1062-3)
Water Vapor Transfer Rate	<0.6 gr / (h. cm <sup>2</sup> ) (TS EN ISO 7783-2)
Tempered Product Heat Resistance	(-25°C) - (+80°C)
Last Resistance Time (Days)	14 days
Crack-Bridging	> 2,5 mm (EN 1062-7)
Elasticity	% 200-300
Fire Response	Ds1d0
Standard Scope	TS EN 1504-2 and EN 14891

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer 300 Ex

Acrylic Based, Super Elastic Waterproofing Material



Public Pos. No: 04.509

<b>Product Description</b>	Elastomeric resin based, one component, super elastic, ready-to-use waterproofing material.
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• On precast surfaces and facades,</li><li>• Water storage, swimming and ornamental pools,</li><li>• On the sloping roof terrace,</li><li>• Wet spaces such as bathroom, wc, balcony,</li><li>• Silo warehouses and exterior of the buildings,</li><li>• It is used as elastic waterproofing material on reinforced concrete, galvanized sheet, polyurethane foam, zinc, PVC fringe, hidden creek surfaces.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Resistance to long-life cracking is high because flexibility at low temperatures is high.</li><li>• Full impact resistance (important for terraces).</li><li>• It provides very good adhesion even on difficult surfaces.</li><li>• Provides very good protection against carbonation.</li><li>• It is resistant to the passage of polluted water.</li><li>• Apply directly by brush or roller.</li><li>• It can be painted and coated with ceramic.</li></ul>
<b>Application Instructions</b>	<p>The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. The application of TEKNOMER 300 EX should be started 3-4 days later.</p> <p>Make sure that the slab or concrete is thrown in the direction of the water stream. The correct control of the curve is made in the following way. Beginning from the beginning to the gauge, put a scale on it. If it is determined that there is no inclination or reverse slope in the control result, the application should not be started and the direction of the water flow should be adjusted by performing concrete and slab treatment. If necessary, additional screed or concrete must be poured. Surface Preparation: Water should be removed on the surface and removed if there is ponding. TEKNOMER Champer Tapes should be applied in advance to all corners of ceramic tiles on wet floors and balconies.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• Foreign materials should not be added.</li><li>• Protection is required to obtain long-term performance expected from the product. After application tiles, ceramic, plaster, screed should be made after 3 days to protect against any punctures, scratches and bumps.</li><li>• Application should be avoided in very humid and / or very hot weather.</li><li>• It should not be applied on surfaces that are frozen, melted or dangerous to frost within 24 hours.</li><li>• It is mixed in a clean container which is free from all kinds of materials that prevent adhesion or in a low speed mixer in its package until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.</li></ul>

- After TEKNOMER 300 EX is thoroughly mixed and rested, the water is applied to the saturated surface with the aid of a brush and / or trowel without losing its moisture.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.
- 50% water can be added to TEKNOMER 300 EX depending on the absorbency of the surface. After primer coat drying, the first layer of TEKNOMER 300 EX is applied to the entire surface with roller or brush. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors. The waiting time between floors is at least 5 hours. 1. After the application of the 1st coat, it can be applied to the other floors when there is no trace on the fingers.
- If the first layer application is made from left to right, TEKNOMER 300 EX should be applied perpendicular to the second layer after drying.
- TEKNOMER 300 EX is curing with air. The curing time is long at low temperatures and the time is short at high temperatures. If a water test is to be carried out or to be manufactured on it, it is necessary to make sure that the product is completely dried and hardened. Otherwise, it should be avoided.

## Technical Data

General Information	
Color	White
Package	20 kg bucket
Shelf Life	12 months in unopened package in dry environment
Application Information	
Application Temperature	(+5°C) - (+35°C)
Time to put into Service	At least 3 days
Last Resistance Period	14 days
Waiting Time Between Coats	5 hrs
Water Proof Time	7 days
Consumption	1.50 kg / m <sup>2</sup> (For 1 mm Dry Film Thickness)
Performance Information	
Adhesion Strength	≥ 1.0 (28 days) N/mm <sup>2</sup> (TS EN 1542)
Water Transfer Rate	< 0.1 kg / (m <sup>2</sup> /h <sup>0.5</sup> ) (TS EN 1062-3)
Water Vapor Transfer Rate	< 0.6 gr / (h.cm <sup>2</sup> ) (TS EN ISO 7783-2)
Crack Bridging (21°C, 50% relative humidity)	> 2,5 mm (EN 1062-7)
Crack Bridging (-10°C, 50% relative humidity)	> 1,5 mm (EN 1062-7)
Pressurized Water Resistance	5 Bars Positive
Heat Resistance of the Cured Product	(-25°C) - (+80°C)
Elasticity	% 500 - 700

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer 400 Astar

Water Based, Bitumen Based, Waterproofing Primer



Public Pos. No: 04.615/1

<b>Product Description</b>	It is a one component, water based liquid bitumen emulsion used as a primer in waterproofing.
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• As a primer before applying any brand bitumen membrane,</li><li>• Terraces, bathrooms, wc, wet areas such as balconies, ceramic bottoms,</li><li>• In the basement and curtain walls,</li><li>• Under the basic and basic,</li><li>• Mineral surfaces that come into contact with the soil, insulation of flower beds,</li><li>• It is used as a primer on screed in applications of sticking to parquet with hot finish.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Can be applied with brush, roller or airless spray gun.</li><li>• Maintain elasticity even at low temperatures.</li><li>• Because it does not contain solvent, it is environment friendly and can be used easily in closed places.</li><li>• It can be applied on dry and slightly moist surfaces.</li></ul>
<b>Application Instructions</b>	<p>The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 400 should be applied after 3-4 days.</p> <p>The surface to be insulated must be dry. Water puddles should be removed if there is pond watering. TEKNOMER 400 If there is dilatation of the structure before applying the primer, isolation of the dilatation with TEKNOMER Champer Tapes and TEKNOBOND 400 D is necessary. Later isolation of dilatations is more difficult and costly.</p> <p>TEKNOMER 400 ASTAR is mixed in a clean container or in its own container which is free from any kind of material which prevents adhesion. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.</p> <p>The mixture is applied to the surface with finished, ready to use product, hard bristle brush or spraying machine. After the material completes the reaction, 2.coat application is made in the perpendicular direction of the first coat application. The waiting time between floors is at least 1 hour. After the first coat has been applied, it can be passed to the other floors when there is no trace on the fingers in the manual control.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• Foreign materials should not be added.</li><li>• It should not be applied under direct sunlight.</li><li>• Should be applied in two layers.</li><li>• It should not be applied in the rain.</li><li>• Newly applied material is finished to cure, etc. until rain. it must be protected against weather conditions.</li><li>• Since the product does not have UV resistance, it is absolutely necessary to use heat insulation plates, protection plates, geotextile felt, should be covered with.</li></ul>

- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO Thinner. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Color	Brown, Black
Ph	> 9.5
Density	1.01 (± 0.03) g/ml
Package	18 kg tin
Shelf Life	12 months in unopened package in dry environment
Application Information	
Temperature Of Application Floor	(+5°C) - (+30°C)
Initial Drying Time	4-5 hours (20°C)
Full Drying Time	72 hours (20°C)
Waiting Time For Soil Filling	3 days
Heat Resistance of the Cured Product	(-25°C) - (+80°C)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknomer 400

Solvent Based, Bitumen Rubber,  
Waterproofing Material



Public Pos. No: 04.626/7E

**Product Description** TEKNOMER 400 is a modified, bituminous and solvent based, one component, use is a ready to use bitumen solution. After evaporation of the solvent inside it, it strongly adheres to the surface where it is applied, forming a water resistant film layer.

## Areas of Usage

- Retaining and curtain walls,
- Against floor humidity and leaking waters,
- On the reinforced concrete terrace,
- Against the rainy waters on the balconies and the hidden rivers,
- In the insulation of the gallery, drainage and waste water ducts and collectors,
- It is used in the isolation of open water for storage and against water and moisture in pools.
- The protection of metal surfaces (casting, sheet metal, etc.) against corrosion can be applied by immersion, spraying or spraying.
- It is used as a primer in bituminous membrane applications on metal surfaces.

## Features and Benefits

- Ready to be applied.
- Must be applied cold, does not require heating and thinning.
- It will dry very quickly.
- It forms an integral and continuous insulation layer.
- Crack bridge can be built.
- It's very elastic.

## Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there are cracks and cavities in the floor or wall to be applied, repair it with appropriate TEKNOREP repair mortar. Teknomer 400 should be applied after 3-4 days.

Surface Preparation: The surface to be insulated must be dry. Water puddles should be removed if there is pond watering. TEKNOMER 400 If there is dilatation of the structure before applying the primer, isolation of the dilatation with TEKNOMER Champer Tapes and TEKNOBOND 400 D is necessary. Later isolation of dilatations is more difficult and costly.

## Application Notes / Restrictions

- Foreign materials should not be added.
- It should not be applied under direct sunlight.
- It should be applied in two layers.
- It should not be applied in the rain.
- The product should not be diluted with water.
- Newly applied material is finished to cure, etc. until rain. it must be protected against weather conditions.
- Teknomer 400 is mixed in a clean container or in its own container, which is free from all sorts of obstruction-free materials. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.

- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO Thinner. After the product is hardened, it should be cleaned by mechanical methods.
- The mixture is applied to the surface with finished, ready to use product, hard bristle brush or spraying machine. After the material completes the reaction, 2. coat application is made in the perpendicular direction of the first coat application. The waiting period between floors is at least 1 hour, and when there is no trace on the fingers in hand control after application of the first coat, it can be passed to the other floors. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.
- Since the product does not have UV resistance, it is absolutely necessary to use heat insulation plates, protection plates, geotextile felt, should be covered with.

## Technical Data

General Information	
Color	Black
Package	18 kg tin
Shelf Life	12 months in unopened package in dry environment
Application Information	
Density Liquid	0,96 ± 0,03 kg/lt
Solid Matter	75% (± 1,00)
Softening Temperature	+ 80°C
Temperature of Application Floor	(+5°C) - (+30°C)
Heat Resistance of the Cured Product	(-25°C) - (+80°C)
Manner of Application	Brush, Roller, Spray
Performance Information	
Initial Drying Time	1 hour (20°C)
Full Drying Time	24 hours (20°C)
Breaking Elongation	1000
Elastic Return	90 %

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknomer 400 W

Water Based, Bitumen Waterproofing Material



Public Pos. No: 04.615/1

**Product Description** One component, modified with special polymers, high elasticity, water-based, waterproofing material.

- Areas of Usage**
- It is used in retaining and curtain walls,
  - Against floor humidity and leaking waters,
  - On the reinforced concrete terrace,
  - In the insulation of the gallery, drainage and waste water ducts and collectors,
  - In the isolation of open water for storage and against water and moisture in pools.

- Features and Benefits**
- Ready to be applied.
  - Solvent free, no glare.
  - Brush, roller or airless spray gun applied by spraying.
  - Vertical concrete surfaces do not sag.
  - No UV resistance.
  - Cold applied, it does not require heating and thinning.
  - It will dry very quickly.
  - It forms an integral and continuous insulation layer.
  - It is water-based and has good adhesion on moist surfaces.

**Application Instructions**

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 400 W should be applied after 3-4 days.

The surface to be insulated must be dry. Water puddles should be removed if there is pond watering. If there is dilatation of the structure prior to application of TEKNOMER 400 W, it is firstly necessary to isolate the dilatation using TEKNOMER Champer Tapes and TEKNOMER 400 D. Later isolation of dilatations is more difficult and costly.

- Application Notes / Restrictions**
- Foreign materials must not be added and diluted with water.
  - It should not be applied under direct sunlight.
  - Should be applied in two layers.
  - It should not be applied in the rain.
  - Newly applied material is finished to cure, etc. until rain. it must be protected against weather conditions.
  - TEKNOMER 400 W is mixed in a clean container or in its own container which is free from all kinds of materials which prevent adhesion. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.

- The mixture is applied to the surface with finished, ready to use product, hard bristle brush or spraying machine. After the material completes the reaction, 2. coat application is made in the perpendicular direction of the first coat application. The waiting period between floors is at least 1 hour, and when there is no trace on the fingers in hand control after application of the first coat, it can be passed to the other floors. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.
- Since the product does not have UV resistance, it is absolutely necessary to use heat insulation plates, protection plates, geotextile felt, should be covered with.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO Thinner. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance/Color	Brown, Black
Storage Conditions / Shelf Life	12 months
Package	18 kg bucket
Density	1,05 ± 0,03 kg/lt
Ph	10.5 (± 1.00)
Application Information	
Application Temperature	(+5°C) - (+30°C)
Initial Drying Time	1 hour (20°C)
Full Drying Time	5-6 hours (20°C)
Waiting Time for Soil Filling	3 days
Performance Information	
Extension Amount	> % 100
Hazardous Substances (EN 12004)	See the safety data sheet
Fire Response	E

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknomer 400 2K

Polymer Modified Bitumen-Rubber Based,  
Two Component Waterproofing Material



Public Pos. No: 04.626/7E

**Product Description** Two component, waterproofing material based on polymer bitumen-rubber based, high elasticity, cracked, applied only from the positive side.

**Areas of Usage**

- In Terrace,
- In the basement and curtain walls,
- On mineral surfaces that come into contact with the ground,
- For all kinds of reinforced concrete structures under the ground and on the ground,
- In wet areas like bathrooms, shower WC,

**Features and Benefits**

- Can be applied with brush or airless spray gun.
- Does not sag on vertical surfaces.
- Maintain elasticity even at low temperatures.
- It can be applied on all mineral surfaces such as concrete, stone, brick, briquette.
- It provides water isolation against jointless, seamless and all kinds of water and humidity effects.
- Solvent free, non-flammable / non-flammable.
- It can be applied on dry and slightly moist surfaces.
- Crack bridge can be built.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 400 2K application should be started 3-4 days later.

Surface Preparation: The surface to be insulated must be dry. Water puddles should be removed if there is pond watering. If there is dilatation of the structure before applying TEKNOMER 400 2K, it is firstly necessary to isolate the dilatation using Teknomer Pah Bandi and TEKNOMER 400D. Later isolation of dilatations is more difficult and costly.

**Application Notes / Restrictions**

- Foreign materials should not be added.
- It should not be applied under direct sunlight.
- Should be applied in two layers.
- It should not be applied in the rain.
- The product should not be diluted with water.
- Newly applied material is finished to cure, etc. until rain. it must be protected against weather conditions.
- Component B is added to Component A 400K, Component A in a clean container, or in its own container, which is free from any obstructive material. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 5 min.

- Apply Teknomer 400 Astar or Teknomer 400 2K liquid component 1/10 on the surface to be applied. After waiting 30 minutes to 1 hour, the mixture is applied to the surface with the ready-to-apply product, hard-bristled brush or spraying machine. After completing the reaction of the material, 2. coat application is made in the perpendicular direction of the first coat application.
- The waiting time between floors is at least 5 hours. After the first coat has been applied, it can be passed to the other floors when there is no trace on the fingers in the manual control. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.
- Since the product does not have UV resistance, it is absolutely necessary to use heat insulation plates, protection plates, geotextile felt, should be covered with.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO Thinner. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

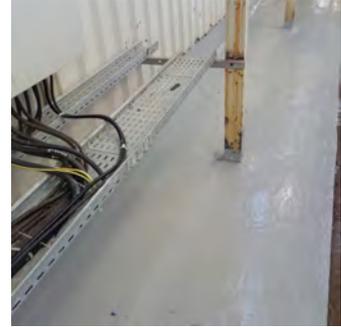
General Information	
Color	A Component black, bitumen-rubber liquid; B Component grey, powder
Package	32 kg set
Shelf Life	12 months in unopened package in dry environment
The Color of the Mixture	Dark Brown, Black
Application Information	
Density Liquid	1,00 (± 0,05) kg/lt
Density Mixture	1,12 (± 0,05) kg/lt
Pot Life	60 min.
Drying Time	Min. Day 3
pH	> 9.0
Elongation	>%100
Full Drying Time	24 hours (20°C)
Heat Resistance of the Cured Product	(+5°C) - (+35°C)
Waiting Time for Soil Filling	3 days
Humidity Tolerance	5%
Fire Response Class	EN 13501-1

Area of Application	Min. Application Thickness (Dry Film Thickness)	Consumption
Grounds exposed to nematode and unpressurized water	2 mm	3.0 kg / m <sup>2</sup>
Temporary pressure water insulation (accumulating ground water)	3 mm (Netting application)	4.5 kg / m <sup>2</sup>
Continuous pressurized water insulation (ground water)	4 mm (Netting application)	6.0 kg / m <sup>2</sup>

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer 600 1K

## One Component, Polyurethane Based, Waterproofing Material



### Product Description

TEKNOMER 600 1K; one component, polyurethane based, high quality, liquid waterproofing material which cures by reacting with the moisture in the air. Because of its high quality, it keeps its elastic structure. It is ready to use.

### Areas of Usage

- It can be used safely as water protection for;
- Corrosion in terraces, roofs, balconies and creekgutters,
- Wet areas undertiles, flowerpots, foundation and foundation curtain walls, Corrosion in concretestructures,
- Exterior parts of the buildings.
- Wooden and sheet metal type applications. Preliminary testing is recommended.

### Features and Benefits

- It is easy to apply (by a roller or a brush or aspray machine)
- It keeps its elasticity even at low temperatures.
- It has high frost resistance
- Excellent adhesion even on difficult surfaces.
- Can be applied seamlessly.
- Keeps its characteristic properties at (-30°C / +90°C)
- It has the feature of creating crackbridge.
- Accumulation is water resistant

### Application Instructions

Surface Quality: All Surfaces must be clean, dry, smooth, free from grease, oil, dirt and rust: Old loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed. Do not wash the surface with water. Damaged surfaces should be repaired with TEKNOREP repair mortar. Wait for 3 or 4 days to apply TEKNOMER 600 1K after you repaired the damage parts with TEKNOREP.

Surface Preparation: If there is dilatation, it is necessary to isolate the dilatation by using Teknomer Chamfer bands and TEKNOMER 400 D before applying TEKNOMER 600 1K. If you postpone it later, isolating the dilatation will cost more and it will be more difficult. All outlets and gutters, strainers should be insulated using chamfer bands. The surface must be dry. There mustn't be any puddle or ponding, Two component, epoxy based TEKNOBOND 300 should be applied as a primer to the concrete surface with a brush or roller as 0,200-0,400 kg/ m<sup>2</sup>. Primer consumption varies according to the quality and absorbency of the concrete. The primer must be completely cured and hardened. For waterproofing application, wait at least 4 hours and maximum 24 hours.

Surface and Ambient Temperature: (+5 °C)- (+35 °C)

Mixing: Pour TEKNOMER 600 1K in a clean pail or keep it in its own pail and Stir it well before using it.

Equipments and Application Methods: After stirring TEKNOMER 600 1K, the product will be ready to be applied. Use a hard bristle brush or aspraying machine to apply it on the surface. When you finish the first layer please wait until it completes its reaction. The second layer has to be applied perpendicular to the first layer. The waiting time between two layers should be minimum 1 hour. Please check if it is dry or not before applying the second layer on the first layer. As it does not have any UV resistance, it should be protected from direct sun light by using thermal insulating board, geotextile felt, guard plate and so on.

Consumption: Factors like temperature, application method and also the surface porosity might alter consumption. Depending on these factors the consumption is 1,20 - 1,50 kg/m<sup>2</sup>

Cleaning: It should be protected from direct sun light, rain, strong wind, snow, frost and also high temperature (+35°C and more) after the application. Hands should be washed before it is hardened.

Cleaning of Equipment: Immediately after application, before hardened, the skin which has contacted with the product should be washed with soap and water. Also the equipment should be cleaned with Tekno Thinner before hardened. After the product is hardened, it should be cleaned by mechanical methods.

Pot Life: Approximately 1 hour at +20° C

Cleanability Time: Approximately 1 hour at +20° C

## Application Notes / Restrictions

- Foreign materials should not be added.
- Apply it as two layers.
- Shouldn't be applied while it is raining. Surface should be dry.
- Please do not add water to dilute the product.
- It should be protected from direct sun light, rain, strong wind, snow, frost and also high temperature until it is hardened.

## Technical Data

General Information	
Appearance	White, Gray
Density (kg/lt)	Approximately 1,30±0.05
Light Pedestrian Traffic Time	16 -24 hours. (At +23° C)
Tensile Strength	>1,5 N/mm <sup>2</sup> (7 days) DIN 53504
Breaking Strain	%500 (7 days) DIN 53504
Chemical Resistance	Acidic and basic solution
Humidity Tolerance	%5
Solid Content ( % )	-80
Shore Hardness ( Shore A )	65 ( 7 Days )
Crack Bridging (mm)	>5 mm
Packaging	20 kg metal tin
Storage And Shelf Life	12 months under proper storage conditions after production date. It should be stored in its original unopened package, in a cool and dry environment. Keep it away from direct sunlight and frost.

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

## Teknomer 600 1K UV

### One Component, UV Resistant Polyurethane Based, Waterproofing Material



**Product Description** TEKNOMER 600 1K; one component, UV resistant, polyurethane based, high quality, liquid waterproofing material which cures by reacting with the moisture in the air. Because of its high quality, it keeps its elastic structure. It is ready to use.

**Areas of Usage**

- It can be used safely as water protection for;
- Corrosion in terraces, roofs, balconies and creekgutters,
- Wet areas undertiles, flowerpots, foundation and foundation curtain walls, Corrosion in concretestructures,
- Exterior parts of the buildings.
- UV resistant,
- Wooden and sheet metal type applications.
- Preliminary testing is recommended.

**Features and Benefits**

- It is easy to apply (by a roller or a brush or aspray machine)
- It keeps its elasticity even at low temperatures.
- It has high frost resistance
- Excellent adhesion even on difficult surfaces.
- Can be applied seamlessly.
- Keeps its characteristic properties at (-30°C / +90°C)
- It has the feature of creating crackbridge.
- Accumulation is water resistant

**Application Instructions**

Surface Quality: All Surfaces must be clean, dry, smooth, free from grease, oil, dirt and rust: Old loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed. Do not wash the surface with water. Damaged surfaces should be repaired with TEKNOREP repair mortar. Wait for 3 or 4 days to apply TEKNOMER 600 1K UV after you repaired the damage parts with TEKNOREP.

Surface Preparation: If there is dilatation, it is necessary to isolate the dilatation by using Teknomer Chamfer bands and TEKNOMER 400 D before applying TEKNOMER 600 1K UV. If you postpone it later, isolating the dilatation will cost more and it will be more difficult. All outlets and gutters, strainers should be insulated using chamfer bands. The surface must be dry. There mustn't be any puddle or ponding, Two component, epoxy based TEKNOBOND 300 should be applied as a primer to the concrete surface with a brush or roller as 0,200-0,400 kg/ m<sup>2</sup>. Primer consumption varies according to the quality and absorbency of the concrete. The primer must be completely cured and hardened. For waterproofing application, wait at least 4 hours and maximum 24 hours.

Surface and Ambient Temperature: (+5 °C)- (+35 °C)

Mixing: Pour TEKNOMER 600 1K UV in a clean pail or keep it in its own pail and Stir it well before using it.

Equipments and Application Methods: After stirring TEKNOMER 600 1K UV, the product will be ready to be applied. Use a hard bristle brush or aspraying machine to apply it on the surface. When you finish the first layer please wait until it completes its reaction. The second layer has to be applied perpendicular to the first layer.

The waiting time between two layers should be minimum 1 hour. Please check if it is dry or not before applying the second layer on the first layer. As it does not have any UV resistance, it should be protected from direct sun light by using thermal insulating board, geotextile felt, guard plate and so on.

Consumption: Factors like temperature, application method and also the surface porosity might alter consumption. Depending on these factors the consumption is 1,20 - 1,50 kg/m<sup>2</sup>

Cleaning: It should be protected from direct sun light, rain, strong wind, snow, frost and also high temperature (+35°C and more) after the application. Hands should be washed before it is hardened.

Cleaning of Equipment: Immediately after application, before hardened, the skin which has contacted with the product should be washed with soap and water. Also the equipment should be cleaned with Tekno Thinner before hardened. After the product is hardened, it should be cleaned by mechanical methods.

Pot Life: Approximately 1 hour at +20° C

Cleanability Time: Approximately 1 hour at +20° C

## Application Notes / Restrictions

- Foreign materials should not be added.
- Apply it as two layers.
- Shouldn't be applied while it is raining. Surface should be dry.
- Please do not add water to dilute the product.
- It should be protected from direct sun light, rain, strong wind, snow, frost and also high temperature until it is hardened.

## Technical Data

General Information	
Appearance	White
Density (kg/ltr)	Approximately 1,30±0.05
Light Pedestrian Traffic Time	16 -24 hours. (At +23° C)
Tensile Strength	>1,5 N/mm <sup>2</sup> (7 days) <span style="float: right;">DIN 53504</span>
Breaking Strain	%500 (7 days) <span style="float: right;">DIN 53504</span>
Chemical Resistance	Acidic and basic solution
Humidity Tolerance	%5
Solid Content ( % )	-80
Shore Hardness ( Shore A )	65 ( 7 Days )
Crack Bridging (mm)	>5 mm
Packaging	20 kg metal tin
Storage And Shelf Life	12 months under proper storage conditions after production date. It should be stored in its original unopened package, in a cool and dry environment. Keep it away from direct sunlight and frost.

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknomer 600 1K Bitumen

## One Component, Bitumen-polyurethane Based, Waterproofing Material.



**Product Description** TEKNOMER 600 1K Bitumen; one component, bitumen-polyurethane based, high quality, liquid waterproofing material which cures by reacting with the moisture in the air. Because of its high quality, it keeps its elastic structure. It is ready to use.

**Areas of Usage** It can be used safely as water protection for;

- Corrosion in terraces, roofs, balconies and creekgutters,
- Wet areas undertiles, flowerpots, foundation and foundation curtain walls, Corrosion in concretestructures,
- Exterior parts of the buildings.
- UV resistant,
- Wooden and sheet metal type applications.
- Preliminary testing is recommended.

**Features and Benefits**

- It is easy to apply (by a roller or a brush or aspray machine)
- It keeps its elasticity even at low temperatures.
- It has high frost resistance
- Excellent adhesion even on difficult surfaces.
- Can be applied seamlessly.
- Keeps its characteristic properties at (-30°C / +90°C)
- It has the feature of creating crackbridge.
- Accumulation is water resistant

**Application Instructions** Surface Quality: All Surfaces must be clean, dry, smooth, free from grease, oil, dirt and rust: Old loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed. Do not wash the surface with water. Damaged surfaces should be repaired with TEKNOREP.

Surface Preparation: If there is dilatation, it is necessary to isolate the dilatation by using Teknomer Chamfer bands and Teknomer 400 D before applying TEKNOMER 600 1K Bitumen. If you postpone it later, isolating the dilatation will cost more and it will be more difficult. All outlets and gutters, strainers should be insulated using chamfer bands.

The surface must be dry. There mustn't be any puddle or ponding, Two component, epoxy based Teknobond 300 should be applied as a primer to the concrete surface with a brush or roller as 0,200-0,400 kg/ m<sup>2</sup>. Primer consumption varies according to the quality and absorbency of the concrete. The primer must be completely cured and hardened. For waterproofing application, wait at least 4 hours and maximum 48 hours.

Surface and Ambient Temperature: (+5 °C)- (+35 °C)

Mixing: Pour TEKNOMER 600 1K Bitumen in a clean pail or keep it in its own pail and Stir it well before using it. Minimum time for stirring should be 3 minutes.

Equipments and Application Methods: After stirring TEKNOMER 600 1K Bitumen, the product will be ready to be applied. Use a hard bristle brush or a spraying machine to apply it on the surface. When you finish the first layer please wait until it completes its reaction.

The second layer has to be applied perpendicular to the first layer. The waiting time between two layers should be minimum 1 hour. Please check if it is dry or not before applying the second layer on the first layer. As it does not have any UV resistance, it should be protected from direct sun light by using thermal insulating board, geotextile felt, guard plate and so on.

Consumption: Factors like temperature, application method and also the surface porosity might alter consumption. Depending on the sefactors the consumption is 1,20-1,50 kg/m<sup>2</sup>

Cleaning: it should be protected from direct sun light, rain, strong wind, snow, frost and also high temperature (+35° C and more) after the application. Hands should be washed before it is hardened.

Cleaning of Equipment: Immediately after application, before hardened, the skin which has contacted with the product should be washed with soap and water. Also the equipment should be cleaned with Tekno Thinner before hardened. After the product is hardened, it should be cleaned by mechanical methods.

Pot Life: Approx 60 min at 20°C

Cleanability Time: Approximately 1 hour at +20° C

### Application Notes / Restrictions

- Foreign material should not be added
- Do not apply under the U.V.
- Should be applied in two layers
- Do not apply under the rain

### Technical Data

General Information	
Appearance	Black
Density (kg/ltr)	1,25±0,05
Solid Content	% 87± 3 <span style="float: right;">ASTM C 1250</span>
Light Pedestrian Traffic Time	6-12 hours
Adherence to Concrete	>1,5 N/mm <sup>2</sup> <span style="float: right;">TS EN 4624</span>
Time Between the Coats	Min 12 Hours - Max- 24 Hours
Elongation at Break	> 2,0 N/mm <sup>2</sup> <span style="float: right;">ASTM D 412</span>
Elongation	>%600 <span style="float: right;">ASTM D 412</span>
Packaging	20 kg
Time for light pedestrian Resistance	24 hours
Full Cured Time	7 Days
Storage And Shelf Life	12 months under proper storage conditions after production date. It should be stored in its original unopened package, in a cool and dry environment. Keep it away from direct sunlight and frost.

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknomer 600 2K

## 2K Polyurethane Based Waterproofing Material



**Product Description** It is a two component, solvent free, polyurethane based waterproofing material that maintains its continuous elastic structure.

- Areas of Usage**
- In terrace, roof, balcony and creek,
  - In flowerpot insulation,
  - In foundation and curtain water insulation,
  - It can be used safely on reinforced concrete and sheet metal.

- Features and Benefits**
- Creates a crack bridge.
  - Maintains high elasticity even at low temperatures.
  - Easy to apply (by roller, brush or spray).
  - It provides excellent adhesion even on difficult surfaces.
  - It shows high resistance to the smiley water pass.
  - It is resistant to salts, bases, diluted acids and dilute sulphates.

### Application Instructions

**Surface Quality:** The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 600 2K should be applied at least 7 days later.

**Surface Preparation:** If there is dilatation of the structure before applying TEKNOMER 600 2K, it is firstly necessary to isolate the dilatation using TEKNOMER Champer Tapes and TEKNOMER 400D. Later isolation of dilatations is more difficult and costly. All overheads and grooves, straps must be insulated using beveled bands. The surface to be insulated must be dry. Water puddles should be removed if there is pond watering. The concrete should be applied as a primer with a two component, epoxy-based TEKNOBOND 300 brush or roller in the range of 200 - 400 grams / m<sup>2</sup>. Primer consumption varies according to the quality and absorption of the concrete. Make sure that the primer is absolutely hardened before it is fully cured. It should be waited for at least 4 hours and at most 48 hours for the water insulation to be done on it.

**Mixing:** Mix TEKNOMER 600 2K with A compound in a clean container or its own container which is free from any kind of material that prevents adhesion and B Component is added on it. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 3 min.

The mixture is applied to the surface with finished, ready to use product, hard bristle brush or spraying machine. After the material completes the reaction, 2. coat application is made in the perpendicular direction of the first coat application. The waiting time between coats is at least 5 hours, and after the first coat has been applied, it can be passed to the other coats when there is no mark on the fingers in the manual control. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.

Since the product does not have UV resistance, it is absolutely necessary to use heat insulation plates, protection plates, geotextile felt, should be covered with.

Cleaning: It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

Cleaning of Equipment: Immediately after application, the equipment should be cleaned with TEKNO Thinner before it hardens. After the product is hardened, it should be cleaned by mechanical methods.

### Application Notes / Restrictions

- Foreign materials should not be added.
- Should be applied in two coats.
- It should not be applied in the rain.
- The product should not be diluted with water.
- Newly applied material is finished to cure, etc. until rain. it must be protected against weather conditions.

### Technical Data

General Information	
Appearance/Color	White, Cream
Storage Conditions / Shelf Life	12 months in unopened package in dry environment
Package	20 kg set (16 kg + 4 kg)
Density (kg/l)	1.60 ± 0.05
Application Information	
Last Resistance Period	7 days
Consumption	1,4 - 1,5 kg/m <sup>2</sup> (For 1 mm Film Thickness)
Pot Life	~ 35 min
Waiting Time Between Coats	5 hours
Walking on	24 - 36 hours
Performance Information	
Concrete Adhesion Strength	≥ 2,0 N/mm <sup>2</sup> (TS EN 4624)
Adhesion Strength to Metal	> 1.5 N/mm <sup>2</sup>
Tensile Strength	≥ 2,0 N/mm <sup>2</sup> DIN 53504
Breaking Elongation	>150 DIN 5350
Humidity Tolerance	45%

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknomer 600 2K Bitum

## Polyurethane-Bitumen Based Waterproofing Material



### Product Description

Bitumen-Polyurethane based, two component, fast curing liquid membrane material. It forms a very elastic film by sticking strongly to almost any kind of surface.

### Areas of Usage

- All constructions are basic, curtain walls, terrace roof, balcony, car park, bridge tops and so on It is used as insulation material against moisture, pressureless and pressurized water in waterproofing of areas.
- It is applied as waterproofing material in wet volume insulation, insulation of plant root strength areas, modification of old water insulation coatings

### Features and Benefits

- High performance on large terraces and deep grounds,
- Creates seamless, super elastic insulation layer,
- Complex details can be easily solved with a comfortable application consistency,
- It provides excellent adhesion even on difficult surfaces.
- It shows high resistance to water ponding and frost,
- It is resistant to detergents, oils, sea water and domestic chemicals.

### Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 600 2K BITUM should be applied after 3-4 days.

TEKNOMER 600 2K If there is a dilatation of the structure before applying BITUMEN, it is firstly necessary to isolate the dilatation using TEKNOMER Champer Tapes and TEKNOMER 400 D. Later isolation of dilatations is more difficult and costly.

All overheads and grooves, straps must be insulated using beveled bands.

The surface to be insulated must be dry. Water puddles should be removed if there is pond watering. The concrete should be applied as a primer with a two component, epoxy-based TEKNOBOND 300 brush or roller as 0,20 - 0,40 kg/m<sup>2</sup>. Primer consumption varies according to the quality and absorption of the concrete. Make sure that the lining is completely cured and hardened. It should be waited for at least 4 hours and at most 48 hours for the water insulation to be done on it.

TEKNOMER 600 2K BITUM In a clean container, free from all kinds of adhesion, or in its own container, the component A is mixed before the Component B is added. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be minimum 3 min.

The mixture is applied to the surface with finished, ready to use product, hard bristle brush or spraying machine. After the material completes the reaction, 2. coat application is made in the perpendicular direction of the first coat application. The waiting time between coats is at least 5 hours, and after the first coat has been applied, it can be passed to the other coats when there is no mark on the fingers in the manual control. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.

## Application Notes / Restrictions

- Since the product does not have UV resistance, it is absolutely necessary to use heat insulation plates, protection plates, geotextile felt and so on. should be covered with.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO Thinner. After the product is hardened, it should be cleaned by mechanical methods.
- Application surface moisture should not be more than 5%
- Foreign materials should not be added.
- The two components must only be mixed well with the mechanical mixer. Care should be taken that the product does not mix even at the edges of the packaging during the mixing process
- Should be applied in two coats.
- It should not be applied in the rain.
- The product should not be diluted, use is ready.
- Newly applied material is finished to cure, etc. until rain. it must be protected against weather conditions.

## Technical Data

General Information		
Appearance/Color	Black	
Storage Conditions / Shelf Life	12 months	
Package	20 kg set (10 kg A +10 kg B)	
Density (kg/lit)	1,00 ± 0,05 kg / lit	
Ignition Point	> 40°C	
Application Information		
Last Resistance Period	7 days	
Pot Life	~ 35 min	
Consumption	1 kg (for 1 mm)	
Performance Information		
Shore A Hardness	35 - 40	ASTM D 2240
Concrete Adhesion Strength	≥ 2,0 N/mm <sup>2</sup>	ASTM D 903
Elongation at Break	> 1800%	DIN 52455
Tensile Strength	≥ 2,5 N/mm <sup>2</sup>	DIN 53504
Service Temperature	-40°C to 80°C	
Humidity Tolerance	Max. 5	

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

## Teknoflex

Bitumen Rubber Based, UV Resistant  
Waterproofing Materials



**Product Description** Bitumen rubber based, weather resistant, UV resistant, waterproofing material.

### Areas of Usage

- Concrete, plaster and screed, plastered brick
- Metal, wood, zinc, sheet metal
- Plastered or primed aerated concrete,
- On asbestos cement board, cement particle boards and the like,
- In the joints and repairs of covers such as bituminous membranes and shingles,
- In building foundations.
- Waterproofing of shear walls and retaining walls,
- Waterproofing of underground parking floors
- Waterproofing of terraces, garden-terraces and balconies,
- Waterproofing of roof streams made of concrete, GRP, sheet metal or zinc,
- In the repair of insulations such as old bituminous membrane, bitumen, asphalt, bituminous paper,
- It is used under and above the ground, horizontally and vertically.

### Features and Benefits

- It is suitable for use under the ground,
- It is not affected by microorganisms and aggressive groundwater.
- Adheres strongly to many dry and slightly damp, absorbent and non-absorbent surfaces, does not detach over time or does not swell.
- It can be used alone or together with TEKNOFLEX as a system in the insulation of curtain walls possible.

### Application Instructions

The surfaces to be applied may be dry or slightly damp. Do not apply to damp or wet surfaces. It should not be applied in areas where water and water vapor pressure or salt emesis are observed on the negative side. Surfaces must be clean, sound and free from free particles. Layers that will reduce adhesion such as lime, calcite, oil, grease, dirt, paint, cement grout, rust, mold oil, salt bleed must be completely cleaned before application. Surfaces should be roughened by mechanical methods in required areas.

In cases where primer application is required, 150 g/m<sup>2</sup> consumption, adhesion performance can be increased with TEKNOFLEX primer.

TEKNOFLEX is ready to use, it is used without diluting with water. The application should be done with a brush or roller in 2-3 layers and full drying (12-24 hours depending on ambient conditions) should be waited between the layers. Newly made applications should be protected against water, rain and frost until they are completely dry.

During the application, the floor/wall junctions and the surfaces with the risk of cracking should be reinforced with an alkali-resistant plaster mesh weighing 50-75gr/m<sup>2</sup> (it should be laid on the fresh layer immediately after the first layer is applied).

After the curtain wall insulation is completed, the surfaces should be protected against damage (heat insulation board XPS, styrofoam, drainage board etc.) The establishment of a suitable drainage system is also recommended.

**Storage:** The package containing the product should not be left in direct sunlight. Shelf life is 1 year at (+10°C - +35°C)  
**Consumption:** 2-3 kg/m<sup>2</sup>  
**Packaging:** 20 kg plastic pail

## Application Notes / Restrictions

- In outdoor applications, the sun should be protected from rain and frost for the first 3 hours.
- During the application of the product, work clothes in accordance with the rules of work and worker health should be worn, and appropriate glasses and masks should be used.
- It should not be forgotten that the strength and adhesion values of the product will also change if the mixing ratios change.

## Technical Data

Test	Method	Unit	Tolerance	Value
Water Resistance	TS EN 15817	-	-	Appropriate
Flexibility at Low Temperature (0°C)	TS EN 15813	-	-	Appropriate
Dimensional at high temperature Stability (70 °C)	TS EN 15818	-	-	Appropriate
Compression Resistance	TS EN 15815	Class	-	C2B
Thickness reduction	TS EN 15819	%	≥ 50	23
Reaction to Fire Class	TS EN 13501-1	Class	-	E
Waterproof	TS EN 15820	Class	-	W2B
Crack Bridging	TS EN 15812	Class	-	CB 2
Rain Resistance	TS EN 15816	Class	-	R2
Density	TS 132	gr/ml	±0,02	1,15
Solids ratio	TS 132	%	Min.	60
Viskozite ( 20 °C)	ASTM D 2196-99	cP	-	6000-8000
Stretch	ASTM D 412& EN ISO 527-3	%	-	>1000
Application Temperature	-	0°C	-	(10) - (35)
Dangerous Materials	-	-	-	-
<p>* For product-related safety information, please refer to the product's Safety Data Sheet.            * The manufacturer reserves the right to change the specifications of the product.</p>				

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknofast

Water Based, Fast Setting Polymer Modified Bitumen  
Waterproofing Materials



**Product Description** Teknofast is water based, fast setting polymer modified bitumen waterproofing material.

## Areas of Usage

- Waterproofing of shotcrete that applied on bored piles.
- To provide waterproofing of lean concrete surfaces that after application rebar fastening process.
- Waterproofing of curtain and retaining walls, walls of basements,
- Waterproofing of elevator shafts,
- For watertightness gross concrete, play wood and under ground basements,
- In the case of waterproofing highways, metro and railways tunnel,
- Waterproofing of water channels and water pipe,
- In the case of need root resistance waterproofing application.
- Waterproofing of building terraces.

## Features and Benefits

- Due to antibacterial affect can be used at the waterproofing of hotels, hospitals construction.
- It is suitable for isolation water reservoir that constructed on the soil
- For exterior and interior waterproofing application of chemical waste storage tank
- It is ecofriend, not harms the enviroment
- The product has fast drying and fast setting properties approximately 5 second
- High application productivity nearly 1000 m<sup>2</sup>/day
- Teknofast is ready for use, it does not need extra curative additive
- Teknofast has extremely high elongation by 2000 %
- The cured film has resistance to plant root
- It has self repair properties, against deformation
- It can be used at any moist surface
- Water vapour permable
- Durable aganist fire.
- Radon gas proof.
- No need for chamfer
- Appropriate with the surfaces that contact with the soil
- In sunny wheather condition after 3 hours it serves to light pedeastrian traffic.

## Application Instructions

Surface Preparation: The surface to be applied Teknofast must be clean, slightly humid or without water lake. The surfaces to be applied must be without cement residue, the debris must be repaired. If there are water pressure from negative and efflorescence, the product should not be applied.

Application: Teknofast is applied by two hand spraying machine. It has two nozzles one of them sprays Teknofast bitumen side and the second one sprays the hardener/accelerator so two of them combined out of the nozzles and seamless membrane forms. Teknofast and hardener ratio is 10:1 by volume. Teknofast bitumen side must be mixed at last 5 min before spraying. The hardener is solid must be dissolved in clean water.

Hardener concentration water:hardener is 9:1 by weight. To obtain 4 mm dry thickness approximate consumption is 6,5 kg/m<sup>2</sup>. Complete dry depends on weather condition may vary between 5-7 days. In any confusion please contact with Tekno Construction Chemicals expert.

Priming: In the case of using primer, the accelerator part or valve should be switched off and only bitumen emulsion part should be sprayed out approximately 200 g/m<sup>2</sup>. The suitable drying time for primer at 23°C is one hour.

Storage:

- Liquid product must be protected against direct sunlight, heat, must be stored at between (10 °C)- (35 °C) under closed areas
- Teknofast must be protected against frost,
- Due to storage condition, shelf life of the product is 12 months.

Packaging: 1000 kg and 200 kg

## Application Notes / Restrictions

- During the application process personnel protective clothes and protective goggles should be used
- The spraying process must be repeated via spray gun on vertical and horizontal directions until the desired final film thickness.
- Teknofast can be applied on moist surfaces, not on puddle water.
- Teknofast is ready for use, it should not be diluted. It should be avoided to add some materials externally
- In the case of rainy, frost weather condition the application must be postponed
- After the completion of curtain wall insulation at underground application, the coated surface must be protected by extruded polystyrene boards, drainage sheet etc.
- The refilled aggregate must be less than 40 mm diameter.

**Technical Data**

Test	Method	Unit	Tolerance	Result
Water Resistance	TS EN 15817	-	-	Pass
Flexibility at Low Temperature (0°C)	TS EN 15813	-	-	Pass
Cold Bending	TS EN 1109	°C	-	-20°C
Dimensional Stability at High Temperature (70°C)	TS EN 15818	-	-	Pass
Resistance to Compression	TS EN 15815	Class	-	C2B
Reduction of Layer Thickness When Fully Dried	TS EN 15819	%	≥ 50	35
Reaction to Fire	TS EN 13501-1	Class	-	E
Watertightness	TS EN 15820	Class	-	W2B
Crack Bridging ability	TS EN 15812	Class	-	CB 2
Resistance to Rain	TS EN 15816	Class	-	R2
Density	TS 132	gr/ml	±0,02	1,15
Solid Content	TS 132	%	Min.	60
Viscosity ( 23°C)	ASTM D 2196-99	cP	-	100-300
Tensile Strength	ASTM D 412 & EN ISO 527-3	N/mm <sup>2</sup>	±0,12	0,5
Elongation	ASTM D 412 & EN ISO 527-3	%	-	>1800
Application Temperature	-	°C	-	(10) - (40)
Hazardous	-	-	-	Nope
Materials	-	-	-	Nope
<p>* For the precaution must be taken check the product material safety data sheet. * The producer has right to modify product specification.</p>				

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknoglass (Eski adı Teknobond 660 2K S)

Polyurethane Based, Transparent, Two Component  
UV Resistant Waterproofing Material



<b>Product Description</b>	Polyurethane Based, two component, high UV and adhesion strength, Waterproofing material.
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• Waterproofing of balconies and terraces,</li><li>• Waterproofing of glass and metal mesh reinforced glass,</li><li>• Waterproofing of glass brick walls,</li><li>• Waterproofing and preservation of natural stones,</li><li>• Water insulation and protection of wood and wood,</li><li>• Waterproofing of metal surfaces,</li><li>• Especially in places where UV resistance is required in outdoor areas.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Epoxy and Polyurethane surfaces provide excellent adhesion to all surfaces such as concrete, asphalt, steel.</li><li>• Its application is very easy. (can be applied by brush, roller or spray)</li><li>• UV resistance and thermal resistance.</li><li>• It has abrasion, impact and chemical resistance.</li><li>• It can be applied safely on horizontal and vertical surfaces</li></ul>
<b>Application Instructions</b>	<p><b>Surface Quality:</b> The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and grime and dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), pull-off should be at least 1.5 N/mm<sup>2</sup>.</p> <p><b>Surface Preparation:</b> The application surface should be cleaned using appropriate methods to ensure maximum adhesion.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• Do not use under the minimum allowable temperature to complete the hardening of the material.</li><li>• Low temperatures will slow the hardening, while higher temperatures will accelerate the hardening. Backboard the lifetime will also vary depending on the temperatures.</li><li>• The product may irritate the skin. Protective gloves or goggles should be used. Hand washing cream can be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.</li><li>• If it remains below 0°C for a long time, crystallization can be observed. If the crystals are dissolved by bringing the product back to room temperature, it can be used without any problems.</li><li>• After component B has been added to component A, stir for 2-3 minutes until a homogeneous color is obtained with a low speed, electric stirrer (up to 400 rpm).</li><li>• TEKNOGLASS; Make sure you cover a continuous, pore-free surface. Application Brus can be in the form of a roll or spray</li><li>• The hands should be washed with warm water and soap. Skin contact may be irritating. Be careful. Eye contact should be avoided. If not, consult a doctor.</li><li>• All equipment used, immediately after application, not yet hardened; It should be cleaned with Tekno Thinner. The cured product can only be mechanically cleaned.</li></ul>

## Technical Data

General Information	
Chemical Structure	Polyurethane
Color	Transparent
Package	5 kg set
Density	0.98 ± 0.02 (g/ml) (EN ISO 2811-1)
Application Information	
Drying Time	Opening to Pedestrian Trail 3 days, Full Curing 7 days
Pot Life	40 - 45 min
Cleaning Time	45 min
Applicable Surface Temperature	(+5°C) - (+ 30°C)
Consumption	100-150 gr/m <sup>2</sup>
Thinner	TEKNOBOND 660 2K Polyurethane Paint Thinner

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknomer 700

Hybrid Polymer Based Single Component  
Waterproofing Material



**Product Description** It is a single component, ready to use waterproofing material that is modified new generation hybrid resins,. Protects its elastic structure permanently, can be applied to moist surfaces, UV resistant, does not contain water and is 100% cured by reacting with air humidity.

**Areas of Usage**

- Terrace, roof, balcony and creek,
- On cracks on the surface,
- On foundation and curtain walls,
- On the mantle surface cracks,
- Protected against water and corrosion in concrete structures,
- In building exterior,
- In ceramic waterproofing,
- In applications on wood and sheet metal surfaces,
- Bitumen and asphalt-based surfaces

**Features and Benefits**

- It has the ability to create a crack bridge,
- UV resistant,
- Provides excellent adhesion even on moist surfaces,
- Maintain elasticity even at low temperatures,
- Easy to apply (by roller or brush)
- Application can be done without priming,
- It has excellent adherence properties even on difficult surfaces,
- Completely applicable,
- It is resistant to watering in terraces and fences,

**Application Instructions**

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOMER 700 can be applied to the surface with brush and roller.

The TEKNOMER 700 is ready for use and can be removed from the packaging and used directly. It should be applied flat and using Special Roll (short pile roll). Application should be done in two coats and waiting for the previous coats. If desired, it can be used as carrier glass fiber, reinforcement throughout the floors.

It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

Immediately after application, before hardened, the equipment should be cleaned with TEKNO Thinner. After the product is hardened, it should be cleaned by mechanical methods.

## Application Notes / Restrictions

- Foreign materials should not be added.
- Must be applied in two coats.
- It should not be applied in the rain.
- Bituminous surfaces can change the color of TEKNOMER 700.
- The product should not be diluted with water.
- Newly applied material is finished to cure, etc. until rain. it must be protected against weather conditions.

## Technical Data

General Information	
Appearance/Color	Light Grey
Density (kg/lt)	1.55 ± 0.05
Storage Conditions / Shelf Life	12 months
Package	1 and 14 kg tins
Application Information	
Wear Time on	24 Hours
Waiting Time Between Coats	8 Hours
Consumption	1.30 -1.50 kg/m <sup>2</sup>
Surface and Application Temperature	(+5°C) - (+35°C)
Performance Information	
Shore Hardness (Shore A)	~ 40 (28 Days)
Breaking Elongation	500 - 700% (7 Days) <span style="float: right;">DIN 53504</span>
Service Temperature	-30°C to + 70°C
Chemical Strength	Various Acidic and Basic Solutions
Humidity Tolerance	5%

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknopur Enjeksiyon

Polyurethane Based,  
Water Reactive Injection System



**Product Description** Two component, low viscosity, water reactive polyurethane resin. Hydrostatic pressurized, pressurized, injection resin to stop the flow of water in very small amounts.

**Areas of Usage**

- High pressure or high flow, pressure, against water leaks,
- To block water leaks in the diaphragm / retaining walls,
- In places that are not subject to movement, large gaps, for example; rock cracks, fracture defects, fill layers, joints, cracks and segregation of concrete,
- Tunnel construction, LDPE or HDPE membrane coating injection.
- NATM drilling and blasting in wet environment, pre-injection for watertightness and consolidation in front of TBM,
- In the wet or dry environment of fillets, fillings,
- In the compression process of gravel fillings in wet or dry environment,
- In soil stabilization and filling anchoring work,
- Where there is a high amount of water currents, the porous reinforced concrete backing is used in curtain grouting.

**Features and Benefits**

- TEKNOPUR ENJEKSIYON is resistant to joints in joints or cracks.
- Not flammable, solvent free.
- The curing time is lowered in seconds with the catalyst.
- The cured product is resistant to most organic solutions, light acids and microorganisms.

**Application Instructions**

Always shake before using the catalyst. The free particles in the cracks or joints must be cleaned. 3 mm denier water leaking cracks should be closed first by applying TEKNOPLUG. Drill holes at an angle of 45 degrees with respect to the diameter of the injector to be used (Paker). If there is no straight line, it is advisable to perforate the holes on both sides of the crack. The hole depth must be half the depth of the reinforced concrete wall. The distance from the crack should be half of the thickness of the concrete. The distance between the holes may be 15-90 cm, depending on the situation. Pakers (injectors) should be placed in the holes and brought to a durable state that can occur during injection. In a dry environment, water is squeezed before the injectors. This process helps to remove dust and foreign matter in the crack / joint. The water in the crack / joint will enable the resin to pass into the reaction. With resin, pre-determined catalyst is prepared, catalyst should be shaken well beforehand. The resin should be kept away from water. Otherwise it will react. Start to foam and start to freeze in the injection pump and equipment and plug the pump. If splashes or joints need to be tightened, two separate pumps must be used.

## Application Notes / Restrictions

- Injection should be initiated from the first shot.
- Start with the injection from the lowest pressure of the injection pump, start the resin overflow the pressure should be raised slowly. Depending on the crack size, reinforced concrete thickness and general conditions, the pressure can range from 14 bar to 200 bar.
- The resin leakage from the concrete is a good sign that the resin is working in concrete. Excess fluids such as rags / and is expected to expand the resin. The injection process is continued when the flow stops.
- During the injection process, the foam will flow through the cracks, first the water and then the foamed resin.
- When the resin reaches the second pouch, the injection process is stopped.
- The injector is placed in the second pouch and the process is repeated.
- When several paker injections are made, the first paker is returned and the resin is injected again.
- After resin injection, the pakets can be repelled with water, which will allow the remaining resin to react.
- The pakets should not be removed from the place unless the resin is cured.
- The hole gaps due to the pakets can be repaired with TEKNOREP.
- After the injection process is finished, the pump and equipment should be cleaned within 30 minutes.
- Waste should be disposed according to local regulations.
- Immediately after the application, not yet hardened; Instruments; with solvent, hand, clean warm water and soap. The hardened mortar can only be mechanically cleaned.

## Technical Data

General Information						
Chemical Structurel	Polyurethane Based					
Isocyanates	17 ± 2%		(EN ISO 1242: 2006)			
Package	20,80 kg set					
Storage Conditions / Shelf Life	12 months					
Density	Component A: 1,15 ± 0,03 (gr / ml) (EN ISO 2811-2: 2002) Catalyst: 0,90 ± 0,03 (gr / ml)					
Viscosity	A Component: 50-100 mPa.s (EN ISO 3219: 1994) Catalyst: 40-60 mPA.s					
Flashing Point	>100°C					
Catalyst quantity at 20°C and curing time:						
Catalyst Rate	1/100	1/50	1/20	1/15	1/10	
Reaction Time	300 Sec.	120 Sec.	60 Sec.	45 Sec.	30 Sec.	

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20 ° C air temperature and 50% relative air humidity.

# Teknoplug

## Very Fast Setting Water Plug



**Product Description** Very fast setting water blocking and special repair mortar used for waterproofing of active water leaks, installation and repair works.

### Areas of Usage

- Elevator pits,
- Where there are water leaks such as water storage, swimming, ornamental pools,
- Basically, on the basement walls,
- In engineering constructions such as metro, tunnel, dam, highway,
- It is not toxic and can be used anywhere including drinking water,
- It is used to fix metal anchors and fasteners,
- During fast repairs before the TEKNOPUR ENJEKSIYON application,

### Features and Benefits

- Easy to use,
- It hardens quickly with water,
- Only water is added to the ready-made mortar. In case of water leakage, only the product is hardened by keeping it in powder state.

### Application Instructions

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. The areas of general use are areas with leaking water, so water on the surface is sufficient. If the surface to be treated is dry, it must be wetted and ready for application by ensuring that it becomes saturated with water. TEKNOPUG is kept on the surface around the currents using gloves until the weak water leaks are cut off.

Add enough water to wet the TEKNOPUG. Since it is set very fast, the product is mixed quickly in a clean little bucket with water as much as the work to be done. If the water leaks are excessive, it is expected that only the powder product will be caught on the leaks and harden.

Consumption: Approximately 2 kg of product is sufficient for 1 pound space. Approximately 270 ml of water for 1 kg of TEKNOPUG is required. With 1 kg TEKNOPUG, approximately 0.7 lt mortar is obtained.

### Application Notes / Restrictions

- When mixing and applying, use nitrile gloves to protect your skin and eyes from exposure.
- After application of TEKNOPUG application surface should be moistened and TEKNOMER 100 application should be made to block the capillary cavities.
- In case of contact with eyes, wash your eyes with plenty of water. Keep away from foodstuffs and children.

## Technical Data

General Information	
Appearance	Grey powder
Application Temperature	(+5°C) - (+30°C)
Package	3 and 20 kg buckets
Mixture Ratio	0.27 l water / 1 kg powder
Shelf Life	6 Months
Pot Life	Max. 1 minute.
Consumption	Approximately 2kg for a 1 liter hole
Final Drying	2 minutes

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoplug Yildirim

Instant Setting Water Plug (Sets in 2 Seconds)



**Product Description** Ready to use, water plug in powder form. It is applied in powder form without mixing with water and sets in 2 seconds.

- Areas of Usage**
- In stopping active water leaks and drying surface waters,
  - On all kinds of mineral based surfaces,
  - Elevator pits,
  - Where there are water leaks such as water storage, swimming, ornamental pools,
  - Basically, on the basement walls,
  - In engineering constructions such as metro, tunnel, dam, highway,

- Features and Benefits**
- Can be applied as powder and mortar.
  - Easy to apply.
  - Suddenly plugging becomes waterproof plug.
  - It does not shrink, it does not crack.
  - It does not corrode reinforced concrete.
  - Excellent adhesion to the surface.
  - The mechanical strength is very high.
  - Any kind of waterproofing material can be applied on it.

**Application Instructions**

The surfaces must be damp, clean and solid. All kinds of dust, oil, dirt, rust, mold oil, detergent and similar anti-adhesion materials and waste should be purified. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. The general usage area is areas where there is leakage water, so water on the surface is sufficient TEKNOPLUG YILDIRIM is applied in powder form. Use gloves absolutely during application Remove some dust from your hand and apply it by pressing on one hammer where there is active water leaking.

We hold this until the water flow is cut.

TEKNOPLUG YILDIRIM can also be applied by mixing with water, but in this case it is necessary to act very quickly.

Immediately after application, it can be cleaned with water.

- Application Notes / Restrictions**
- After application of TEKNOPLUG YILDIRIM application surface should be moistened and TEKNOMER 100 application should be made to block the capillary cavities.
  - TEKNOPLUG YILDIRIM is not flexible. Cracks can then occur in areas exposed to vibrations in areas where motion or seating is observed.
  - The air can be lumpy with the nemesis. For this reason, keep the packages closed.
  - Keep away from children's reach.
  - Do not swallow, do not use empty packages for the purpose of storing food and drinking water.
  - When mixing and applying, use nitrile gloves to protect your skin and eyes from exposure.
  - In case of contact with eyes, wash your eyes with plenty of water. Keep away from foodstuffs and children.

## Technical Data

General Information	
Appearance	Grey powder
Application Temperature	(+5°C) - (+30°)
Package	Cin a 3 kg bucket
Mixture Ratio	0.20 l of water / 1 kg of powder
Shelf Life	6 Months
Consumption	Approximately 2 kg for a 1 liter hole
Final Drying	1 minute

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20 ° C air temperature and 50% relative air humidity.

# Teknosil W

Water Based, Silan Siloxane Water Repellent Sealer



<b>Product Description</b>	Silan-Siloxane based, white colored material that gives water repellency by impregnating the surfaces of building elements.
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• In exterior cladding,</li><li>• On vertical surfaces,</li><li>• On surfaces with low absorption such as concrete, marble, granite, slate,</li><li>• On absorbent surfaces such as brick, colored briquette, aerated concrete, traverten,</li><li>• It is used to protect historical works against atmospheric effects.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• It is white impregnated material with high penetration property.</li><li>• Reduces the adverse effects of the atmosphere by rendering the surface of the building element impermeable.</li><li>• It is resistant to alkalis and UV</li><li>• Water based and vapor permeable.</li><li>• Reduces heat loss and heating costs by keeping the building components dry.</li></ul>
<b>Application Instructions</b>	<p>The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there are cracks and cavities in the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOSIL W should be applied after 3-4 days. Ready to be applied, absolutely no water should be added. TEKNOSIL W The surface to be applied must be dry.</p> <p>must be applied to the dry surfaces with the appropriate roll, brush or spraying machine for maximum penetration in the first layer applications. Approximately 4 hours later the application of the second coat should be started. In order to provide maximum protection, it may be necessary to apply one more coat on very porous surfaces. It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened. Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• Follow work safety precautions. Use gloves, mask, goggles when using the product.</li><li>• Avoid contact with skin and pond. If not, consult a doctor.</li><li>• Do not apply to PVC and metal surfaces.</li><li>• Do not add foreign substances into the mixture.</li></ul>

## Technical Data

General Information	
Appearance	White liquid
Package	10 liter tin
Shelf Life	12 months
Consumption	150-200 gr/m <sup>2</sup>
Density (kg/lt)	1,0 ± 0,1
Drying Time	45-60 min
Service Temperature	(-25°C) - (+80°C)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknosil

## Solvent Based Siloxane Water Repellent Sealer



Public Pos. No: 04.472/3

**Product Description** Siloxane based, transparent material that gives water repellent property by impregnating to the surfaces of building elements.

- Areas of Usage**
- In exterior cladding,
  - Vertically on the surfaces,
  - On surfaces with low absorption such as concrete, marble, granite, slate,
  - In absorbent surfaces such as brick, colored briquette, gas concrete, traverten,
  - It is used to protect historical works against atmospheric effects.

- Features and Benefits**
- Colorless, transparent impregnated material with high penetration.
  - Protection without altering the appearance of the exterior coatings and causing a the film layer.
  - By rendering the surfaces of building elements impermeable, the negative effects of the atmosphere are reduced.
  - It is resistant to alkalis and UV.
  - It is vapor permeable.
  - Reduces heat loss and heating costs by keeping the building components dry.
  - Contains solvent.

**Application Instructions**

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. If there is segregation in concrete, it should be discarded and loose parts should be removed, weak parts should be removed. If there is crack, hollow on the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. TEKNOSIL should be applied 3-4 days later. The surface to be treated with TEKNOSIL must be dry. Ready to be applied, absolutely no foreign matter should be added.

For maximum penetration in first coat applications, dry surfaces should be applied with suitable roll, brush or spraying machine. Approximately 4 hours later the application of the second coat should be started. In order to provide maximum protection, it may be necessary to apply one more coat on very porous surfaces. It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. After the product is hardened, it should be cleaned by mechanical methods.

- Application Notes / Restrictions**
- Compliance with work safety precautions. Use gloves, mask, glasses when using the product.
  - Avoid contact with skin and pond. If not, consult a doctor.
  - Do not apply to PVC and metal surfaces.
  - Do not add water or foreign substances in the mixture.

## Technical Data

General Information	
Appearance	Transparent Yellow
Package	10 liter tin
Shelf Life	12 months
Consumption	150-200 gr/m <sup>2</sup>
Density (kg/lt)	0,90 ± 0,03
Drying Time	45 - 60 min.
Service Temperature	(-25°C) - (+80°C)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknomer Waterproofing Membrane

Waterproofing Membrane / Overlap



**Product Description** Waterproofing membrane / overlay for indoor wet volume applications.

## Areas of Usage

- Indoors / In residential areas, wet areas (bathroom, balcony, terrace, roof, etc.) floor and wall area applications, expansion joints and other joint sealants.
- Outdoor / Commercial areas.

## Application Instructions

Application before application / Floor is strong, carrier, dust, dirt and oil, grease, rust and paraffin wax.

- The waterproofing membrane / covering is cut to the extent that it completely covers the floor / wall and provides insulation.
- Ceramic adhesive (C2 class Flex adhesive) is prepared according to the manufacturer's instructions.
- The use of a 4 mm x 4 mm threaded comb is recommended for the application of the adhesive. (6x6 mm comb should be used for ceramic adhesive application in external / commercial membrane applications.)
- The insulation membrane / cover is applied easily on the wall and the floor on the ceramic adhesive. From the standpoint of ease of application, application from the top down is recommended.
- It can be applied by overlapping membrane / coverings in indoor and residential applications. The system is locked by applying liquid membranes or sealing materials in the overlay areas (at least 5 cm).
- The excess ceramic adhesive, air bubbles and pots remaining underneath the membrane / cover surface are smoothed with a flat trowel.
- In the application of insulation to outdoor and open spaces, application should be made by adding membranes to the tip, (no overlaying should be done).
- The excess ceramic adhesive, air bubbles and pots remaining underneath the membrane / cover surface are smoothed with a flat trowel.
- After application of the membrane to the tip, waterproofing band should be applied at the junctions of the membranes.
- Immediately following the application of the waterproofing membrane / cover, the ceramic builder can be applied on the membrane and the ceramic coating can be started.
- After ceramic application, the wall and floor joints are filled with suitable sealing material.

## Technical Data

General Information		
Appearance	Yellow (other colors available on special request on RAL cartel)	
Package	It's a 30-meter roll.	
Shelf Life	24 months in a place that is not exposed to the sun light	
Total width	1000 mm	
Total Thickness	0.5 mm	
Item Weight	298 g/m <sup>2</sup>	
Penetration Pressure, Max.	3 bar	
Breaking Load (Longitudinal)	96 N/15mm	DIN 527-3
Breaking Load (Transverse)	47 N/15 mm	DIN 527-3
Break Extension (Longitudinal)	86%	DIN 527-3
Break Extension (Transverse)	83%	DIN 527-3
Pressurized Water Resistance	1.5 bar	DIN EN 1928 (Method B)
Fire Classification	B2	
Please consult for Chemical Resistance Chart.		

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknomer PVC Champer Tapes

## Elastic Cham Insulation Band



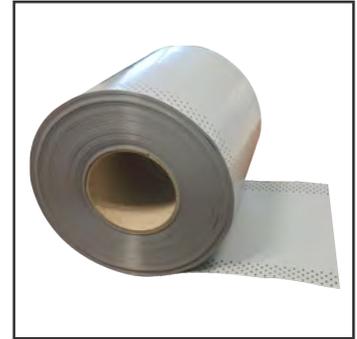
<b>Product Description</b>	Elastic, thermoplastic elastomer (TPE) based, polyester mesh carrier, 120/70 mm wide, elastic joint sealant used in the insulation of construction joints
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• Under the tiles and ceramics in the interior,</li><li>• Prior to the application of tiles, ceramics and waterproofing in wet areas such as pools, water depots, bathrooms, WCs,</li><li>• In the details of the pipe entry-exit application such as water tank, pool,</li><li>• Wet spaces, balconies, between terraces of riding-based waterproofing materials,</li><li>• Between the floors of the ceramic adhesives,</li><li>• It is used for the isolation of dynamic (moving) cracks and cold joints in floors and curtains.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Provides reinforcing reinforcement using waterproofing materials based on sliding.</li><li>• It is easily cut and adhered by welding and it is easily applied in all kinds of water insulation details.</li><li>• Before concrete is poured, it is placed at the planned place and after the concrete is hardened, it remains inside and provides water insulation.</li><li>• It is resistant to irreversible, crushing and bending.</li><li>• It is resistant to many chemicals.</li><li>• It is economical.</li></ul>
<b>Application Instructions</b>	Surface Preparation: The application surface should be cleaned from all kinds of anti-adhesion materials such as dust, oil, paint, silicone, curing material, detergent.
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• Waterproofing material should be selected in accordance with the application and environment conditions. Insulation</li><li>• TEKNOMER Pah Bandi should be taken according to the place to be applied before the material is cut and stored ready for application.</li><li>• TEKNOMER Pah Bandi is laid on the cold joint, corner and horizontal-vertical joints and dynamic cracks after the first layer of the sliding waterproofing material is applied. The first layer of insulation should be applied a little too much for the bach tape to be embedded into the waterproofing material.</li><li>• The bark tapes can be applied to ceramics, granite-ceramic adhesives, and concrete surfaces with acrylic adhesives. The ends of the joining of the bach band are heated with the source pod to PVC softener and then the top of the min. 10 cm is pressed in the future to stick to each other.</li><li>• In this way a continuous and uninterrupted insulation is provided. After this, second layer of waterproofing material should be applied on the TEKNOMER Pah Bandi and the insulation should be completely covered.</li><li>• Make sure that the bevel band is completely covered after application. Do not approach the flame. If the product is a fire jumble, wash it with water jet and do not apply the foam application. It is not recommended in environments where the temperature is high.</li><li>• It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.</li></ul>

**Technical Data**

<b>General Information</b>	
Appearance	Roll, center grey, edges white
Package	Roll of 50 meters
Shelf Life	24 Months
Item Weight	35 gr/m (120/70) mm
Wall Thickness	0.52 mm (120/70) mm
Width	120 mm (70 mm thermoplastic elastic part)
Length of the Roll	50 meters
Longitudinal Break Extension	26% (DIN EN ISO 527-3)
Transverse Break Extension	123% (DIN EN ISO 527-3)
Maximum Explosion Pressure	3 bars positive
Waterproofing	> 1,5 bar( DIN EN 1928 (behavior B)
UV Resistance	Minimum 500 hours (DIN EN ISO 4892-2)
Service Temperature	-30°C / +90°C

# Teknomer Dilatation Tape

Thermoplastic Elastomer Based, 200 mm.  
Wide Dilatation Tapes



**Product Description** Thermoplastic elastomer based, 200 mm. across dilatation tapes.

## Areas of Usage

- Indoors and outdoors,
- In all kinds of engineering constructions such as dam, highway, tunnel, metro,
- In the water depot, pool, parking and shopping centers,
- In high-moving joints,
- In horizontal and vertical applications in expansion joints,
- Inside and outside radial base curtain joints,
- It is applied in outdoors, in structural separations and in the isolation of construction joints.
- It is applied under areas covered with a suitable adhesive or sealing material.

## Features and Benefits

- Provides water insulation in expansion joints.
- It is resistant against various chemicals.
- It is pasted with TEKNOBOND 400 D to solve the details of horizontal and vertical applications.
- After the waterproofing with TEKNOMER DILATATION TAPES in the expansion joints, put dilation profiles on it and provide aesthetic solution.
- It is weather resistant and water resistant.
- It can be applied easily even in expansion joints where polyurethane mast is not used.
- It is resistant to plant roots.

## Application Instructions

Surface Preparation: The application surface must be cleaned from anti-stick materials such as dust, oil, curing material, detergent, mold oils and silicone. The surface may be dry or slightly damp. It is advised not to apply on wet, snowy surfaces in rainy weather.

Cleaning: It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

## Application Notes / Restrictions

- Depending on the length of the expansion (dilatation) joint to be applied, the TEKNOMER DILATATION TAPES is cut with a scissors or a modeling knife, if desired, a larger polyethylene wicker than the dilatation width.
- It is removed slightly upward to make a curve, the two component epoxy based TEKNOBOND 400 D is mixed. Trowel is applied to both concrete surfaces with trowel.
- TEKNOMER DILATATION TAPES is cleaned with a small amount of thinner and placed on the expansion joint. If it is to be added in the band application, the riders shall be placed at least 10 cm above the top. Bottom and upper sides of the places are melted by holding hot air source and then joined.
- TEKNOMER DILATATION TAPES should be seen from the holes on the side of the TEKNOBOND 400 D. After the first coat application of TEKNOBOND 400 D is hardened, second coat application is done.
- The product must be removed from its packaging when it is used. Care must be taken to ensure that the piercing and cutting tools do not damage the structure of the product before and after application.

## Technical Data

General Information		
Appearance	Grey colored roll tape	
Package	25 meter roll	
Shelf Life	24 months	
Width / Thickness	200 mm / 1 mm / 1.5 mm	
Item Weight	930 gr/m <sup>2</sup>	
Shore A Hardness	94	
Longitudinal Break Extension	1000%	(DIN EN ISO 527-3)
Transverse Break Extension	1000%	(DIN EN ISO 527-3)
Maximum Explosion Pressure	> 4 bar	
Longitudinal Breaking Load	14.0 N / mm <sup>2</sup>	(DIN EN ISO 527-3)
Transverse Fracture Load	14.0 N / mm <sup>2</sup>	(DIN EN ISO 527-3)
Fire Classification	B2	
Service Temperature	-30°C / +90°C	
UV Resistance	Min. 6500 hours	
Adhesion Strength	> 4.0 N / mm <sup>2</sup>	(DIN 1348)

# Teknomer Swelling Tapes 2005 2V

## Swellable Water Stop Betonite Tape



### Product Description

Water-expanding, elastic black rubber band based on bentonite and hydrophilic polymer. The ready-mixed concrete elements and the water in the reinforced concrete are expanded by 200%.

### Areas of Usage

- In combination with ready-mixed concrete elements,
- In underground structure joints,
- In the joints of concrete elements,
- In vertical structure joints,
- In the pipe joints passing through concrete,
- In concrete-steel joints,
- It is used in reinforced concrete structures exposed to high pressure water.

### Features and Benefits

- The water expands with the contact.
- It will not dangle if placed correctly.
- Can be easily placed with nails or mastic.
- It is flexible and expands by 200%.
- It is resistant against various chemicals.
- Impact resistant

### Application Instructions

Smooth surfaces should be fastened with 4-5 nails or Teknopoliderz 1K mastic between the inner and outer reinforcement. On rough surfaces;  $\pm 3$  mm. It is pressed firmly into the paste and it must be fastened with 4-5 nails on the mast. F and S types can be applied in pipe passes. To ensure complete sealing, all of the profiles must contact the joint surface. The tip of the profile should be added to complement each other. The ends of the relays must be centered to each other to provide uniformity at the joint.

### Application Notes / Restrictions

- Avoid application in heavy rain.
- Covering the tape with an epoxy based product, such as applying it around the pipe inlets and outlets is needed. It will expand with water and other applications to be made outside of the bottle into the bottle.

## Technical Data

General Information	
Appearance	Rectangular profile
Package	10 meters
Shelf Life	It's unlimited when you keep the original package.
Color	Black
Thermal expansion	2.5 - 3.5 V
Tensile Strength	2.2 N/mm <sup>2</sup>
Elongation at Break	250 %
Shore A hardness	~50
Density	1.2 kg/dm <sup>3</sup>

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknomer Swelling Tapes 2005 8V

Swellable Water Stop Rubber Tapes



**Product Description** Water expanding, chloroprene rubber and hydrophilic resin blend, hydrophilic vulcanize, elastic rubber band The ready-mixed concrete elements and water in the concrete expand 800% of the temasta.

- Areas of Usage**
- In combination with ready-mixed concrete elements,
  - In underground structure joints,
  - In the joints of concrete elements,
  - In vertical structure joints,
  - In the pipe joints passing through concrete,
  - In concrete-steel joints,
  - It is used in reinforced concrete structures exposed to high pressure water.

- Features and Benefits**
- Water expands with contact.
  - Does not hang if placed correctly.
  - Can be easily placed with nails or mastic.
  - It is flexible and expands by 800%.
  - It is resistant against various chemicals.
  - Impact resistant

**Application Instructions** Smooth surfaces should be fastened with 4-5 nails or TEKNOPOLİDERZ 1K mastic between the inner and outer reinforcement. On rough surfaces;  $\pm 3$  mm. it is pressed firmly into the paste in the width, it must be attached with 4-5 nails in addition to the mast. F and S types can be applied in pipe passes. To ensure complete sealing, all of the profiles must contact the joint surface. The tip of the profile should be added to complement each other. The ends of the relays must be centered to each other to provide uniformity at the joint. There is a need for yardage as long as the required joint length.

- Application Notes / Restrictions**
- Avoid application in heavy rain.
  - Covering the band with an epoxy-based product, such as applying around pipe inlets and outlets is needed. It will expand other applications to be done outside of epoxy for expansion with water.

## Technical Data

General Information	
Appearance	Rectangular profile
Dimensions	5 mm x 20 mm
Package	20 meters roll - in a box
Shelf Life	Shelf life is unlimited when stored in the original package.
Color	Blue
Application Information	
Density	1.25 gr/cm <sup>3</sup> + 0.05
Wet / Dry Difference	500% (DIN 73521)
Application Temperature	-20°C to +50°C
Performance Information	
Thermal expansion	800% (DIN 73521)
Tensile Strength	4 N/mm <sup>2</sup>
Pressurized Water Resistance	7 Bar
Shore A Hardness	40

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknomer Water Stop Tapes

## PVC-Based Waterproofing Tapes For Joint Sealing



Public Pos. No: 04.616/A

### Product Description

They are modified water based flexible water retainers produced in special sections that ensure the sealing of construction and expansion joints when concrete is poured. Depending on their use, they are supplied in different sizes and types.

### Areas of Usage

- Water storage, swimming and ornamental pools,
- Concrete water retaining structures such as ducts, treatment plants, dams, swimming pools
- They are used to provide waterproofing of construction and expansion joints.
- Large basement buildings, underground car parks, subways and sea walls are used as impervious constructions.

### Features and Benefits

- High quality PVC seams for long term durability
- Suitable for high water pressure
- Easy to weld on site
- There are many different measures and solutions depending on the application

### Application Instructions

Water retaining belts placed in concrete:

Centering of concrete elements. TEKNOMER WATER STOP TAPES can be easily fixed to the concrete in the concrete thanks to the holes left at certain intervals on the tape. Water Retention Tapes applied to the surface:

It can be applied to mold or base-protection concrete surface.

Welding:

TEKNOMER WATER STOP TAPES can be easily combined with hot air source because they are thermoplastic PVC based. The edge parts (available for each type) must be fixed to the welding mold and cut precisely. The cut ends should then be welded with suitable welding equipment until a molten, smooth PVC surface is formed. The welding machine must be removed and the fused edges must be pressed firmly together. The welding temperature should be ~ +200°C

### Application Notes / Restrictions

- Waterproofing tapes should not be applied to the concrete surface in applications that will be exposed to negative water pressure.
- It must be protected from UV rays during storage.
- It should be stored in unopened packages in dry conditions at temperatures of +30°C maximum.

**Technical Data**

<b>General Information</b>	
Color	Yellow
Structure	Modified Polyvinyl Chloride (PVC-p)
Package	20 mt roll
Shelf Life	It is suitable for 5 years from the date of production.
Density	1.26 g/cm <sup>3</sup> (± 0.04 g/cm <sup>3</sup> )
Tensile Strength	> 12 N /mm <sup>2</sup> (TS 3078)
Shore A hardness	83 ± 4 (TS 3078)
Elongation at break	>200% (TS 3078)
Ash Content	At most 5.0% (m/m) mass (TS 3078)
Water Absorption Rate	Not more than 1.5% (m/m) mass (TS 3078)
Service Temperature	At least -35°C, at most +55°C

# Teknomer Butyl Insulating Tape

Self Adhesive Butyl Tape for Waterproofing



Public Pos. No: 04.013/1

**Product Description** Self adhesive butyl tape with PP carrier and silicone protection paper. It can stick many types of substrates.

**Application Instructions** It is used in waterproofing applications such as wet room (bathroom, balcony, terrace, roof, etc.), horizontal and vertical jointing and chamfering, shower room insulation and expense unit insulation, window blind casing insulation, self-adhesive butyl rubber coating before ceramic and natural stone applications it is easily applied. It is suitable for indoor use where non-pressurized water is exposed to moderate load (Ex. Residential bathrooms).

**Material Composition** Carrier: Polypropylene felt  
Coating: Aging resistant, self-adhesive butyl rubber with high flexibility  
Protection Layer: Two-piece silicone paper that can be easily separated.

## Technical Data

General Information	
Color	Gray
Resistance to Hotness, Min. /Max.	-5°C / +60°C
Item Width	120mm ± 3mm
Product Thickness	0,64mm ± 0,12mm
Product Range	790g / m <sup>2</sup> ± 35 g/m <sup>2</sup>
Length of the Roll	20m
Breaking Elongation	60% transverse, 80% longitudinal
Application Recommendations	The protective paper is removed at an optimum temperature of not exceeding 28°C.
Storage	Store in cool, dry places that are not exposed to the sun rays.
Expires	The optimum usage period is 12 months.

# INDUSTRIAL FLOORING and COATING PRODUCTS



# Teknoser 100

## Quartz Aggregate Dry Shake Surface Hardener



### Product Description

Applied to fresh concrete surfaces, cement, hard quartz aggregate, chemical additives, special color pigment and polymer additives consisting of powder surface hardener.

### Areas of Usage

- Indoor and Outdoor,
- Parking area, and garage ramps,
- Underpasses subway stations,
- Material store, factories, fairgrounds, shopping malls where human traffic is intense, industrial buildings, gas stations, stations aircraft hangar etc. Wear resistance is applied in requested localities.
- Hangars and mechanical workshop

### Features and Benefits

- It is used by sprinkling on fresh concrete by hand or with a machine.
- Provides resistance to dust.
- It is more resistant to wear.
- It is more resistant to strikes.
- It increases the strength of the concrete.
- It increases the impermeability of concrete.

### Application Instructions

**Surface Quality:** It is very important that the floor is ready before the application of TEKNOSER 100. Otherwise, cracks will occur in the concrete. Dirt surface to be applied; Squeeze should be done very well. For this reason, after squeezing the ground with rollers, it should be wetted through the sprinklers and then cross over the cylinder again. Surface tests such as layer test should be done to check that the hardener can be made. These procedures must be repeated until the ground is well pressed. In order to prevent the concrete to lose juice and to prevent cracks, a nylon is laid on the surface. If TEKNOSER 100, ground hardener will be applied by pouring screed concrete on the existing concrete, after the concrete surface is cleaned, floats or monolithic screed application should be chosen according to the project needs. The surface should be roughened with various methods where necessary and cement sherbet should be removed. The existing concrete surface should be saturated with water at least one day before the application starts and free water should be prevented from leaving the surface. Application should be done on saturated concrete. Before the application, the ano should be formed in square form by planning according to the determined and the screed should be made according to these principles. If the box profiles will be used while anos are constituted, the mortar used for fixing should be removed when the screed is poured. Ano molds should be cleaned before each application and a TEKNOLIL mold separator should be used to remove the edges of the screed concrete. Ano molds used when pouring screed concrete should be designed at the height of the screed. The fact that the molds to be used have a lamp with a tenon structure will prevent the concrete under load from collapsing through the cold pointing sections. Steel reinforcement to be used according to the project should be placed in place using concrete over. If the reinforcement is laid on the existing floor without using a rust share, it will not prevent the concrete tension and cause the ano to crack under load, since the reinforcement will not have any adherence to the screed concrete. If single layer of reinforcement is to be used, the reinforcement should be laid in the middle of the concrete thickness.

Reinforcement should not be carried out outside the ano's border. Reinforcement is to be solved with welded wire fabric, welded wire fabric should be laid on top of each other. Cold and crack control joints should be formed in order to control the shape and location of the reinforced concrete floor under load without creating cracks in the concrete. In order to the movements in these joints to occur only in the horizontal and in the desired direction, ano must be removed and must be connected to the ano formed. The remaining parts of the joint reinforcement outside the ano should be plastic pipe or hose and the other ano should be poured the concrete in this way. This application will prevent the vertical and longitudinal movements of cold joints during the movement of anos.

In monolithic screed application, TEKNOBOND AD epoxy primer should be used to ensure adherence between old concrete and new concrete. Before taking the TEKNOBOND AD cure, it is necessary to ensure that the surface is sanded sufficiently. If the old concrete moisture cannot be removed TEKNOBOND 300 NB moisture barrier primer should be preferred.

In floating screed applications, plastic sheets should be laid on the old concrete and the cement should be prevented from adhering to the old concrete.

Cracks that may occur in the screed concrete under faulty design and application and service loads will be reflected on the surface hardener.

The recommended concrete Compressive Resistance should be at least C25 according to the Turkish Standards Institute 206. The thickness of the screeds should be above 12 cm and the water/cement ratio should be above 0.45.

Surface Preparation: minimum 2 cm thick thermal insulating board is placed in, such as walls, curtain concrete around the floor to be applied to the surface hardener application. In the middle column, elevator partitions, partitions around the minimum 2 cm thermal insulating board is applied. By this means, a gap is created to allow the concrete to run. This allows the cap to dilate and shrink freely without cracking. The gaps left after the completion of the application should be filled with TEKNOPOLIDERZ 1K or 2K.

When pouring concrete between ano, it should compress the concrete using a vibrated floating rule. The necessary adjustments must be made by using the control floating rule and wood float before the concrete surface is exposed to water. The water on the concrete surface should be swept with a long sleeved wooden floating rule. TEKNOSER 100 should be sprinkled in such a way that it will not separate when applied. Base coat process according to the environment and weather conditions, when the concrete is on 0,5 - 1,5 cm deep footprints should be applied after hard enough to remain. The material should not be poured on the ano as a heap, sprinkled as homogeneously as possible and corrected with a squeegee. If the material is poured onto the ano surface and spread with a squeegee, the material should be scraped off and cleaned from the surface where the first poured material remains thicker. In the first stage, 2/3 of total consumption should be sprinkled on the concrete surface and spread with the help of a squeegee or a machine. The spreading material should be expected to be moistened by taking the water of the concrete (color change) and the surface hardener should be coalesce with the concrete by making enough disc polishing (helicopter tray polishing). After that, the remaining 1/3 of the amount is sprinkled on the fresh concrete surface and polishing is done with the help of disc polishing. Honing process is continued until the intended surface quality is reached. The surface material spilled on the ano should be continuously with a spatula while disc polishing. Otherwise, the elevation difference between the two ano and the bad jointing appearance may occur. After the coarse polishing, the delicate polishing should be started, delicate polishing is the polishing with a knife. Knife polishing should be done until the desired brightness is achieved.

Curing Stage: after polishing, TEKNOKUR material must be used to protect the concrete surface. TEKNOKUR material increases the concrete strength value and decreases the rate of evaporation of water in the concrete and allows the concrete to make a socket with the amount of water available. Prevents shrinkage cracks and surface dust. Cure application should be made in summer and winter. After the concrete is hardened enough, ano's should be cut at least 4mm width and the joints should be formed. The joints created should be filled with TEKNOPOLIDERZ 1K or 2K in order to prevent the negative effects such as cracks and dust from the joints.

## Application Notes / Restrictions

- In order to obtain performance from the product, the application time of polishing must be determined very well.
- The application of surface hardener is done with the time varying according to the quality and type of concrete to be applied. When applying, should be paid attention to the socket stages of concrete.

- The product, may cause sensitization by skin contact. Safety gloves or goggles should be worn. Protective cream can also be applied to the hands before starting work. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Application should be avoided in windy, extreme cold and hot weather conditions.
- In cases where relative humidity drops below 40%, efflorescence may occur depending on the type of cement used in the concrete used.
- Joint cutting should be done as soon as possible, after the application. If it is cut after 3 days, it will be difficult to cut and concrete cracks will be seen on the surface.
- For TEKNOSER 100 application, concrete ano, tray polishing, base coat and surface finish equipment for special applications, polyurethane sealant gun is required.
- Application time for surface hardeners is affected by every variable that affects the placement of concrete, and therefore varies according to dominant conditions.
- In mechanical applications with automatic ejector and laser screed spreader, the sprinkler process can start immediately after the concrete release to allow the surface hardener to wet.
- Compression with trowel can be started when the weight of the helicopter trowel is met by the concrete.
- In manual application, the surface hardener should be sprinkled after 3 to 5 mm without leaving any fingerprints.
- Periodically checking the status and development of concrete ensures the correct decision about the stages and turn of the application.
- Application of surface hardener should not be done in very windy or arid conditions.
- Some of the cement is replaced with volatile ash, concrete is more sticky and workability is low should not be used.
- Changes in concrete requirement such as water and cement content can cause slight tailing.
- Surface hardeners can make a difference in color based on the natural variety of concrete applied.
- To provide color consistency and continuity, the floor placement process should be done as clean and protected from the environment as possible.
- During the drying process, color variations are normal and this situation is expected. Each process must provide a regular TEKNOSER 100 application.
- Right timing and polishing techniques are obligatory.

## Technical Data

General Information	
Color	Grey, Red and Green
Shelf Life	12 months in dry environment in unopened packaging
Package	25 kg kraft bag
Application Information	
Outlay	4-8 kg/m <sup>2</sup>
Application Temperature	(+5°C) - (+30°C)
Cleaning Duration	4 hours (+ 20°C)
Performance Information	
Bending Resistance	≥ 9 N/mm <sup>2</sup>
Compressive Resistance	≥ 70 N/mm <sup>2</sup>
Abrasion Strength (According to the Taber method)	≤ 4,0 gr (H22, 1000 gr, 1000 circulation)
Fire Resistive	A1

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoser 300

## Corundum Aggregate Dry Shake Surface Hardener



Public Pos. No: 04.613/3F10

### Product Description

Applied to fresh concrete surfaces, hard aggregate, chemical cement corundum and similar additives, special color pigments and polymer additives, powder surface hardener.

### Areas of Usage

- Indoor and outdoor,
- Car park, garage ramp,
- Hangars and mechanical workshop,
- Underpasses, subway stations,
- In material stores, factories, fair grounds, shopping malls where human traffic is intense, industrial buildings, gas stations, stations, airplane hangar etc.

### Features and Benefits

- High wear resistance is applied in requested localities.
- It is used by sprinkling on fresh concrete by hand or with a machine.
- Provides resistance to dust.
- It is more resistant to wear.
- It is more resistant to strike.
- It increases the strength of the concrete.
- It increases the impermeability of concrete.

### Application Instructions

Surface Quality: It is very important that the floor is ready before the application of TEKNOSER 300. Otherwise, cracks will occur in the concrete. Dirt surface to be applied; Squeeze should be done very well. For this reason, after squeezing the ground with rollers, it should be wetted through the sprinklers and then cross over the cylinder again. Surface tests such as layer test should be done to check that the hardener can be made. These procedures must be repeated until the ground is well pressed. In order to prevent the concrete to lose juice and to prevent cracks, sera nylon is laid on the surface. If TEKNOSER 300, ground hardener will be applied by pouring screed concrete on the existing concrete, after the concrete surface is cleaned, floats or monolithic screed application should be chosen according to the project needs. The surface should be roughened with various methods where necessary and cement sherbet should be removed. The exiting concrete surface should be saturated with water at least one day before the application starts and free water should be prevented from leaving the surface. Application should be done on saturated concete. Before the application, the ano should be formed in square form by planning according to the determined and the screed should be made according to these principles. If the box profiles will be used while anos are constituted, the mortar used for fixing should be removed when the screed is poured. Ano molds should be cleaned before each application and a TEKNOLIL mold separator should be used to remove the edges of the screed concrete. Ano molds used when pouring screed concrete should be designed at the height of the screed. The fact that the molds to be used have a lamp with a tenon structure will prevent the concrete under loan from collapsing through the cold pointing sections. Steel reinforcement to be used according to the project should be placed in place using concrete over. If the reinforcement is laid on the existing floor without using a rust share, it will not prevent the concrete tension and cause the ano to crack under load, since the reinforcement will not have any adherence to the s creed concrete. If single layer of reinforcement is to be used, the reinforcement should be laid in the middle of the concrete thickness. Reinforcement should not be carried out outside the ano's border.

Reinforcement is to be solved with welded wire fabric, welded wire fabric should be laid on top of each other. Cold and crack control joints should be formed in order to control the shape and location of the reinforced concrete floor under load without creating cracks in the concrete. In order to the movements in these joints to occur only in the horizontal and in the desired direction, ano must be removed and must be connected to the ano formed. The remaining parts of the joint reinforcement outside the ano should be plastic pipe or hose and the other ano should be poured the concrete in this way. This application will prevent the vertical and longitudinal movements of cold joints during the movement of anos. In monolithic screed application, TEKNOBOND AD epoxy primer should be used to ensure adherence between old concrete and new concrete. Before taking the TEKNOBOND AD cure, it is necessary to ensure that the surface is sanded sufficiently. If the old concrete moisture cannot be removed TEKNOBOND 300 NB moisture barrier primer should be preferred. In floating screed applications, plastic sheets should be laid on the old concrete and the cement should be prevented from adhering to the old concrete. Cracks that may occur in the screed concrete under faulty design and application and service loads will be reflected on the surface hardener.

The recommended concrete Compressive Resistance should be at least C25 according to the Turkish Standards Institute 206. The thickness of the screeds should be above 12 cm and the water/cement ratio should be above 0.45.

Surface Preparation: minimum 2 cm thick thermal insulating board is placed in, such as walls, curtain concrete around the floor to be applied to the surface hardener application. In the middle column, elevator partitions, partitions around the minimum 2 cm thermal insulating board is applied. By this means, a gap is created to allow the concrete to run. This allows the cap to dilate and shrink freely without cracking. The gaps left after the completion of the application should be filled with TEKNOPOLIDERZ 1K or 2K.

When pouring concrete between ano, it should compress the concrete using a vibrated floating rule. The necessary adjustments must be made by using the control floating rule and wood float before the concrete surface is exposed to water. The water on the concrete surface should be swept with a long sleeved wooden floating rule.

TEKNOSER 100 should be sprinkled in such a way that it will not separate when applied. Base coat process according to the environment and weather conditions, when the concrete is on 0,5 - 1,5 cm deep footprints should be applied after hard enough to remain. The material should not be poured on the ano as a heap, sprinkled as homogeneously as possible and corrected with a squeegee. If the material is poured onto the ano surface and spread with a squeegee, the material should be scraped off and cleaned from the surface where the first poured material remains thicker. In the first stage, 2/3 of total consumption should be sprinkled on the concrete surface and spread with the help of a squeegee or a machine. The spreading material should be expected to be moistened by taking the water of the concrete (color change) and the surface hardener should be coalesce with the concrete by making enough disc polishing (helicopter tray polishing). After that, the remaining 1/3 of the amount is sprinkled on the fresh concrete surface and polishing is done with the help of disc polishing. Honing process is continued until the intended surface quality is reached. The surface material spilled on the ano should be continuously with a spatula while disc polishing. Otherwise, the elevation difference between the two ano and the bad jointing appearance may occur. After the coarse polishing, the delicate polishing should be started, delicate polishing is the polishing with a knife. Knife polishing should be done until the desired brightness is achieved.

Curing Stage: after polishing, TEKNOKJR material must be used to protect the concrete surface. TEKNOKJR material increases the concrete strength value and decreases the rate of evaporation of water in the concrete and allows the concrete to make a socket with the amount of water available. Prevents shrinkage cracks and surface dust. Cure application should be made in summer and winter. After the concrete is hardened enough, ano's should be cut at least 4mm width and the joints should be formed. The joints created should be filled with TEKNOPOLIDERZ 1K or 2K in order to prevent the negative effects such as cracks and dust from the joints.

## Application Notes / Restrictions

- In order to obtain performance from the product, the application time of polishing must be determined very well.
- The application of surface hardener is done with the time varying according to the quality and type of concrete to be applied. When applying, should be paid attention to the socket stages of concrete.
- The product, may cause sensitization by skin contact. Safety gloves or goggles should be worn.

Protective cream can also be applied to the hands before starting work. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- Application should be avoided in windy, extreme cold and hot weather conditions.
- In cases where relative humidity drops below 40%, efflorescence may occur depending on the type of cement used in the concrete used.
- Joint cutting should be done as soon as possible, after the application. If it is cut after 3 days, it will be difficult to cut and concrete cracks will be seen on the surface.
- For TEKNOSER 300 application, concrete ano, tray polishings, base coat and surface finish equipment for special applications, polyurethane sealant gun is required.
- Application time for surface hardeners is affected by every variable that affects the placement of concrete, and therefore varies according to dominant conditions.
- In mechanical applications with automatic ejector and laser screed spreader, the sprinkler process can start immediately after the concrete release to allow the surface hardener to wet.
- Compression with trowel can be started when the weight of the helicopter trowel is met by the concrete.
- In manual application, the surface hardener should be sprinkled after 3 to 5 mm without leaving any fingerprints.
- Periodically checking the status and development of concrete ensures the correct decision about the stages and turn of the application.
- Application of surface hardener should not be done in very windy or arid conditions.
- Some of the cement is replaced with volatile ash, concrete is more sticky and workability is low should not be used.
- Changes in concrete requirement such as water and cement content can cause slight tailing.
- Surface hardeners can make a difference in color based on the natural variety of concrete applied.
- To provide color consistency and continuity, the floor placement process should be done as clean and protected from the environment as possible.
- During the drying process, color variations are normal and this situation is expected. Each process must provide a regular TEKNOSER 300 application.
- Right timing and polishing techniques are obligatory.
- Wash hands with warm water and soap immediately after application.

## Technical Data

General Information	
Color	Grey, Red and Green
Shelf Life	12 months in dry environment in unopened packaging
Package	25 kg kraft bag
Application Information	
Outlay	4-8 kg/m <sup>2</sup>
Implementation Temperature	(+5°C) - (+30°C)
Cleaning Duration	4 hours (+20°C)
Performance Information	
Bending Resistance	≥ 9 N/mm <sup>2</sup>
Compressive Strength	≥ 70 N/mm <sup>2</sup>
Wear Resistance (according to the Taber method)	≤ 3,0 gr (H22, 1000 gr, 1000 circulation)
Fire Resistive	A1

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoser 300 SC

## Silicium Carbide Aggregate Dry Shake Surface Hardener



Public Pos. No: 04.613/3F10

### Product Description

Applied to fresh concrete surfaces, cement, hard quartz aggregate, chemical additives, special color pigment and polymer additives consisting of powder surface hardener.

### Areas of Usage

- Indoor and outdoor,
- Car park, garage and ramp,
- Hangars and mechanical workshop,
- Underpasses, subway stations,
- In material stores, factories, fair grounds, shopping malls where human traffic is intense, industrial buildings, gas stations, stations, airplane hangar etc.
- High wear resistance is applied in requested localities.

### Features and Benefits

- It is used by sprinkling on fresh concrete by hand or with a machine.
- Provides resistance to dust.
- It is more resistant to wear.
- It is more resistant to strike.
- It increases the strength of the concrete.
- It increases the impermeability of concrete

### Application Instructions

Surface Quality: It is very important that the floor is ready before the application of TEKN OSER 300 SC. Otherwise, cracks will occur in the concrete. Dirt surface to be applied; Squeeze should be done very well. For this reason, after squeezing the ground with rollers, it should be wetted through the sprinklers and then cross over the cylinder again. Surface tests such as layer test should be done to check that the hardener can be made. These procedures must be repeated until the ground is well pressed. In order to prevent the concrete to lose juice and to prevent cracks, sera nylon is laid on the surface. If TEKNOSER 300, ground hardener will be applied by pouring screed con rete on the existing concrete, after the concrete surface is cleaned, floats or monolithic screed application should be chosen according to the project needs. The surf ace should be roughened with various methods where necessary and cement sherbet should be removed. The existing concrete surface should be saturated with water at least one day before the application starts and free water should be prevented from leaving the surface. Application should be done on saturated concrete. Before the application, the ano should be formed in square form by planning according to the determined and the screed should be made according to these principles. If the box profiles will be used while anos are constituted, the mortar used for fixing should be removed when the screed is poured. Ano molds should be cleaned before each application and a TEKNOIL mold separator should be used to remove the edges of the screed concrete. Ano molds used when pouring screed concrete should be designed at the height of the screed. The fact that the molds to be used have a lam with a tenon structure will prevent the concrete under loan from collapsing through the cold pointing sections. Steel reinforcement to be used according to the project should be placed in place using concrete over. If the reinforcement is laid on the existing floor without using a rust share, it will not p event the concrete tension and cause the ano to crack under load, since the reinforcement will not have any adherence to the screed concrete. If single layer of reinforcement is to be used, the reinforcement should be laid in the middle of the concrete thickness.

Reinforcement should not be carried out outside the ano's border. Reinforcement is to be solved with welded wire fabric, welded wire fabric should be laid on top of each other. Cold and crack control joints should be formed in order to control the shape and location of the reinforced concrete floor under load without creating cracks in the concrete. In order to the movements in these joints to occur only in the horizontal and in the desired direction, ano must be removed and must be connected to the ano formed. The remaining parts of the joint reinforcement outside the ano should be plastic pipe or hose and the other ano should be poured the concrete in this way. This application will prevent the vertical and longitudinal movements of cold joints during the movement of anos.

In monolithic screed application, TEKNOBOND AD epoxy primer should be used to ensure adherence between old concrete and new concrete. Before taking the TECHNOBOND AD cure, its necessary to ensure that the surface is sanded sufficiently. If the old concrete moisture cannot be removed TEKNOBOND 300 NB moisture barrier primer should be preferred. In floating screed applications, plastic sheets should be laid on the old concrete and the cement should be prevented from adhering to the old concrete. Cracks that may occur in the screed concrete under faulty design and application and service loads will be reflected on the surface hardener. The recommended concrete Compressive Resistance should be at least C25 according to the Turkish Standards Institute 206. The thickness of the screeds should be above 12 cm and the water/cement ratio should be above 0.45.

Surface Preparation: minimum 2 cm thick thermal insulating board is placed in, such as walls, curtain concrete around the floor to be applied to the surface hardener application. In the middle column, elevator partitions, partitions around the minimum 2 cm thermal insulating board is applied. By this means, a gap is created to allow the concrete to run. This allows the cap to dilate and shrink freely without cracking. The gaps left after the completion of the application should be filled with TEKNOPOLIDERZ 1K or 2K.

When pouring concrete between ano, it should compress the concrete using a vibrated floating rule. The necessary adjustments must be made by using the control floating rule and wood float before the concrete surface is exposed to water. The water on the concrete surface should be swept with a long sleeved wooden floating rule.

TEKNOSER 100 should be sprinkled in such a way that it will not separate when applied. Base coat process according to the environment and weather conditions, when the concrete is on 0,5 -1,5 cm deep footprints should be applied after hard enough to remain. The material should not be poured on the ano as a heap, sprinkled as homogeneously as possible and corrected with a squeegee. If the material is poured onto the ano surface and spread with a squeegee, the material should be scraped off and cleaned from the surface where the first poured material remains thicker. In the first stage, 2/3 of total consumption should be sprinkled on the concrete surface and spread with the help of a squeegee or a machine. The spreading material should be expected to be moistened by taking the water of the concrete (color change) and the surface hardener should be coalesce with the concrete by making enough disc polishing (helicopter tray polishing). After that, the remaining 1/3 of the amount is sprinkled on the fresh concrete surface and polishing is done with the help of disc polishing. Honing process is continued until the intended surface quality is reached. The surface material spilled on the ano should be continuously with a spatula while disc polishing. Otherwise, the elevation difference between the two ano and the bad jointing appearance may occur. After the coarse polishing, the delicate polishing should be started, delicate polishing is the polishing with a knife. Knife polishing should be done until the desired brightness is achieved.

Curing Stage: after polishing, TEKNOKUR 100 material must be used to protect the concrete surface. TEKNOKUR material increases the concrete strength value and decreases the rate of evaporation of water in the concrete and allows the concrete to make a socket with the amount of water available. Prevents shrinkage cracks and surface dust. Cure application should be made in summer and winter. After the concrete is hardened enough, ano's should be cut at least 4mm width and the joints should be formed. The joints created should be filled with TEKNOPOLIDERZ 1K or 2K in order to prevent the negative effects such as cracks and dust from the joints.

## Application Notes / Restrictions

- In order to obtain performance from the product, the application time of polishing must be determined very well.
- The application of surface hardener is done with the time varying according to the quality and type of concrete to be applied. When applying, should be paid attention to the socket stages of concrete.

- The product, may cause sensitization by skin contact. Safety gloves or goggles should be worn. Protective cream can also be applied to the hands before starting work. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Application should be avoided in windy, extreme cold and hot weather conditions.
- In cases where relative humidity drops below 40%, efflorescence may occur depending on the type of cement used in the concrete used.
- Joint cutting should be done as soon as possible, after the application. If it is cut after 3 days, it will be difficult to cut and concrete cracks will be seen on the surface.
- For TEKNOSER 300 application, concrete ano, tray polishing, base coat and surface finish equipment for special applications, polyurethane sealant gun is required.
- Application time for surface hardeners is affected by every variable that affects the placement of concrete, and therefore varies according to dominant conditions.
- In mechanical applications with automatic ejector and laser screed spreader, the sprinkler process can start immediately after the concrete release to allow the surface hardener to wet.
- Compression with trowel can be started when the weight of the helicopter trowel is met by the concrete.
- In manual application, the surface hardener should be sprinkled after 3 to 5 mm without leaving any fingerprints.
- Periodically checking the status and development of concrete ensures the correct decision about the stages and turn of the application.
- Application of surface hardener should not be done in very windy or arid conditions.
- Some of the cement is replaced with volatile ash, concrete is more sticky and workability is low should not be used.
- Changes in concrete requirement such as water and cement content can cause slight tailing.
- Surface hardeners can make a difference in color based on the natural variety of concrete applied.
- To provide color consistency and continuity, the floor placement process should be done as clean and protected from the environment as possible.
- During the drying process, color variations are normal and this situation is expected. Each process must provide a regular TEKNOSER 300 application.
- Right timing and polishing techniques are obligatory.
- Wash hands with warm water and soap immediately after application.

## Technical Data

General Information	
Color	Grey, Red and Green
Shelf Life	12 months in dry environment in unopened packaging
Package	25 kg kraft bag
Application Information	
Outlay	5-8 kg/m <sup>2</sup>
Application Temperature	(+5°C) - (+30°C)
Cleaning Duration	4 hours (+ 20°C)
Performance Information	
Bending Resistance	≥ 9 N/mm <sup>2</sup>
Compressive Resistance	≥75 N/mm <sup>2</sup>
Wear Resistance (According to the Taber Method)	≤ 2,0 gr (H22, 1000 gr, 1000 circulation)
Fire Resistive	A1

# Teknoser Lityum

Capillary Effect Water Based Liquid  
Surface Hardener for Mineral Surfaces



**Product Description** TEKNOSER LITYUM is a low viscosity lithium silicate based liquid surface hardener.

## Areas of Usage

TEKNOSER LITYUM is used to permanently harden all cement based surfaces, for example:

- Production areas,
- Storage areas,
- Cold storage areas,
- Outdoor and indoor parking grounds,
- Airplane hangars, heliport,
- Quays

## Features and Benefits

- TEKNOSER LITYUM, penetrates deeply into the concrete or screed surface and creates crystals that insoluble in pores. On surfaces where TEKNOSER LITYUM is applied;
- Water absorption decreases.
- Hardness increases over time and remains constant,
- Frictional strength increases continuously,
- Certain dust free is provided,
- Consists of brightness and vibrant color,
- Cracking is prevented,
- Wearing is prevented,
- Damages caused by freezing are prevented,
- Water vapor passes.
- There is no need for another floor covering.

## Application Instructions

The surfaces to be applied to TEKNOSER LITYUM should be dry or mat damp, hard, strong and not water holes. Dust, plaster residual, oil, tire track, such as paint residuals separator and adherence should be free from elements preventing. A chemical process (vapor barrier) must not be applied. Fresh concrete does not need surface preparation. It should be pressed on it and there should be no water layer on it. Vapor barrier cannot be applied before TEKNOSER LITYUM application. TEKNOSER LITYUM is used in a method suitable for the Surface Condition (for example, broom, vacuum cleaner, brush, pressure water, etc.) should be cleaned.

Also, the surface must be suitable for the following requirements:

Concrete Quality: min. C 20/25

Screed Quality: min. EN 13813 CT-C25-F4

Application Method / Equipment: TEKNOSER LITYUM is applied to fresh concrete or screed through core spray system. TEKNOSER LITYUM is applied on a single layer equal to the surface and to fill the pores. The sprayed material is evenly distributed to the surface with a thin fiber brush or a tyre trowel. Be careful not to accumulation on the surface. Applied material is left to dry.

## Application Notes / Restrictions

- During application at high temperatures, the floor must be fully saturated with water. TEKNOSER LITYUM application should be done while the ground is moist, but there should not be puddles of water.
- TEKNOSER LITYUM cannot be applied to frozen, dirty or wet surfaces.
- A small amount of color differences can occur due to different absorption degrees of the ground.
- Acidic cleaning materials should not be used.
- Regularly cleaning of the surface increases the brightness.
- Instantly brightness are provided to polish the surface.
- Outlay depending on smoothness and absorbency of the application surface. Tools and materials used in the application should be washed with water immediately after using.

## Technical Data

General Information	
Chemical Structure	Lithium Silicate
Appearance	Gauze Colloid
Shelf Life	2 years
Package	17 kg Metal Pail
Consistency	1,10 (g/cm <sup>3</sup> ) (EN ISO 2811-1)
Outlay	Surface covering between 1 liter and 6-20 m <sup>2</sup>
Application Temperature	(+ 2°C) - (+38°C)
Curing Period	4 - 6 hours
Hardening Period	7 days

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoserbaski

Stamped Concrete Surface Hardener  
With Different Colors



Public Pos. No: 04.613/3F04

## Product Description

Quartz aggregate and other additives, resistant to wear and tear, used as monolithic on fresh concrete, ready to use, stamped concrete surface hardener with many standart colors.

## Areas of Usage

- Indoor and Outdoor
- Car park,
- Garage and ramps,
- Decorative appearance requested place,
- Hangars and mechanical workshops,
- Tunnels, subway stations,
- Sidewalks, fairgrounds and shopping malls where pedestrian traffic is intense,
- Wear resistance is applied in requested areas.

## Features and Benefits

- It is used by sprinkling on fresh concrete by hand or with a machine.
- Provides resistance to dust.
- It is more resistant to wear.
- It is more resistant to strike.
- It increases the impermeability of concrete.
- It increases an aesthetic, colorful and decorative surface.
- High resistance occurs due to low water/cement ratio on the concrete surface.
- The hardener becomes part of the concrete structure applied.
- It shows resistance to the cracking of the concrete resulting from the freeze - thaw.

## Application Instructions

Before applying TEKNOSER BASKI, it is very important that the floor is ready. Otherwise, cracks will occur in the concrete. If the oil to be applied; compression should be done very well.

For this reason, after compressing the ground with cylinders, the cylinder must be wetted with water tank and passed over again. Surface tests such as layer test should be done to check that the hardener can be made. These procedures must be repeated until the ground is well pressed. In order to prevent the concrete to lose its juice and to prevent cracks sera nylon is laid on the soil surface. If TEKNOSER BASKI ground hardener will be applied by pouring screed concrete on the existing concrete, after the concrete surface is cleaned, floats or monolithic screed application should be chosen according to the Project needs. Before the application ano should be formed in square form by planning according to the Project, the crack joint t should be determined and the screed should be made according to these principles. If the box profiles will be used while anos are formed, the mortar used for fixing should be removed when the screed is poured. Ano molds should be cleaned before each application and a TEKNOIL mold separator should be used to remove the edges of the screed concrete.

Ano molds used when pouring screed concrete should be designed at the height of the screed. The fact that the tools to be used have a lamp-zipped structure will prevent the concrete under load from collapsing through the cold joint sections.

A min of 2 cm thick thermal insulation plate is placed in such as walls, curtain walls around the floor to be applied to the press concrete. In the middle column, elevator curtains, curtains around the min 2 cm heat insulation plates are applied.

In this way, a gap is created to allow the screed concrete to run. This allows the cap to expand and shrink freely without cracking. The gaps left after the completion of the application should be filled with TECHNOLIDERZ 1K or 2K.

TEKNOSER BASKI should be sprinkled in such a way that it does not decompose when applied. Sprinkle process, according to ambient and weather conditions, when the concrete is on, 0,5-1,5 cm deep footprints should be hardened enough to remain. The material should not be poured on the ano as a lump, sprinkled as homogeneously as possible and corrected with a squeegee. If the material is poured onto the ano surface and spread with a plinth, the material should be scraped off and cleaned from the surface where the first poured material remains thicker. In the first stage, 2/3 of total consumption should be sprinkled on the concrete surface and spread with the help of a squeegee or a machine.

After the concrete is hardened enough, ano should be cut at least 4 mm width and the joints should be formed. The joints created should be filled with TECHNOLIDERZ 1K or 2K in order to prevent the problems such as cracks and dust from the joints.

Light colors such as yellow, blue, white the TEKNOSER BASKI application is definitely not recommended. If it is to be done again at least 6-7 kg/m<sup>2</sup> and 1/3 should be applied at 3. Immediately after the polishing, the mold separator technique is sprinkled on the surface and the printing process is started with the molds. After 1-2 days, the surface is washed with pressurized water until the desired effect and image is obtained. Joints are cut in 1-3 days.

TEKNOCILA 300 can be applied to the cleaned and dried TEKNOSER BASKI surface from the mold separators. Wet appearance in undesirable situations, polish process should be done with TEKNOCILA 400.

## Application Notes / Restrictions

- The press concrete application is done with timing, depending on the quality and type of concrete to be applied, weather and ambient conditions. Application speed increases in hot weather, application speed decreases in cold weather. When applying, attention should be paid to the setting stages of concrete.
- Product may cause sensitization by skin contact. Protective gloves or goggles should be worn. Protective cream can also be applied before work. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Application should be avoided in windy, extreme cold and hot weather conditions.
- In cases where relative humidity drops below 40%, florescence may occur depending on the type of cement used in the concrete used.
- Joint cutting should be done as soon as possible, after the application. If it is cut after 3 days, it will be difficult to cut and concrete cracks will be seen on the surface.
- The application of pressure concrete should not be done in very windy or dry air conditions.
- Some of the cement is replaced with volatile ash, concrete is more sticky and workability is low should not be used.
- Changes in concrete properties such as water and cement content can cause slight differences in color.
- 4 Depending on the natural variety of concrete applied to the pressure concrete can create a difference in color.
- To ensure color consistency and continuity, the floor placement process should be done as clean and protected from the environment as possible.
- During the drying process, color differences are normal and expected. Each process must provide a proper TEKNOSER BASKI application.
- Suitable dark colored TEKNOSER BASKI for the ancient look should be preferred.

## Technical Data

General Information	
Color	Various Colors
Shelf Life	12 months in dry environment in unopened packaging
Package	25 kg kraft bag
Application Information	
Outlay	3-5 kg/m <sup>2</sup>
Application Temperature	(+5°C) - (+30°C)
Cleaning Duration	4 hours (+ 20°C)
Performance Information	
Bending Resistance	≥ 7 N/mm <sup>2</sup>
Compressive Resistance	≥ 50 N/mm <sup>2</sup>
Wear Resistance (According to the Böhme Method)	≤ 5,5 cm <sup>3</sup> / 50 cm <sup>2</sup>
Fire Resistive	A1

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknoserbaski Duvar

Stamped Concrete Wall Product for Vertical Stamping Applications



**Product Description** Resistant to wear and dust, ready to use, gray colored, decorative wall stamping product.

## Areas of Usage

- Indoor and outdoor,
- Areas requiring aesthetic concrete application,
- Shopping malls and fairgrounds,
- Artificial waterfall, rock, etc. manufacturing,
- On old plaster or wall, brick, stone or ready to use panels

## Features and Benefits

- Virtually all surfaces can be applied smoothly
- Highly natural images are obtained by advanced coloring techniques
- Light, isolation specifically and breathable product
- Plastic consistent, easy and convenient to give detailed pattern
- Suitable for indoor and outdoor applications
- Preliminary preparation is very little or not at all.
- It is fast, unlimited color and size, stone or brick application can perform the same day.
- You create both the application and the patterns at the same time

## Application Instructions

Surfaces should be free from all kinds of dust, oil, dirt, rust, mold oil, detergent, etc. surfaces should be smooth, weak parts should be removed. If there is cracks in the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. In hot weather, it is recommended to apply TEKNOLATEX 400 as a primer before application. If the application absorbent, then TEKNOLATEX 300 should be preferred as a primer surface is not TEKNOSER BASKI DUVAR is added slowly into clean and cold water and mixed with a low speed mixer for about 10 minutes until the mixture becomes lump free.

Mixed mortar has rested for 5 minutes and mixed again. The amount of water required must be adjusted according to the weather conditions. 25 kg TEKNOSER BASKI DUVAR, 4-5 liters of water mixed and then applied to the wall. The prepared mixture should be consumed within 2 hours depending on the weather conditions. For mold press, the appropriate thickness of mortar should be applied to the surface at roughly the same level. After applying the appropriate mold separator to the press molds, it is placed on the wall surfaces with attention to the additional places. After the proper pressure process, the molds are carefully removed from the surface. Simple defects should be corrected with trowel if they exist on the surface.

## Uygulama Notları / Sınırlamalar

- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above +35°C) rain and frost. Cleaning can only be done using mechanical equipment as the hardening will be completed a few days after the application.
- Wash your hands with warm water and soap immediately after application.
- The product may cause sensitization by skin contact. Protective gloves or goggles should be worn and protective cream may be applied before work. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## Technical Data

General Information	
Appearance	Grayed out dust
Shelf Life	12 months in dry environment in unopened packaging
Package	25 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixing Rate	4,0 - 5,0 lt water / 25 kg powder
Performance Information	
Splice Strength (EN 1542)	≥ 1,5 N/mm <sup>2</sup>
Compressive Resistance	≥ 15,0 N/mm <sup>2</sup>
Capillary Absorption (TS EN 1015-18)	< 0,2 kg/m <sup>2</sup> h <sup>0,5</sup>
Reaction to Fire	A1

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 28 days.

# Teknoserbaski Duvar LW

Light Density Stamped Concrete Wall Product for  
Vertical Stamping Applications



**Product Description** Resistant to wear and dust, ready to use, gray colored, light density wall stamping concrete product.

- Areas of Usage**
- Indoor and outdoor,
  - Areas requiring aesthetic concrete application,
  - Shopping malls and fairgrounds,
  - Artificial waterfall, rock, etc. manufacturing,
  - On old plaster or wall, brick, stone or ready to use panels

- Features and Benefits**
- Virtually all surfaces can be applied smoothly
  - Highly natural images are obtained by advanced coloring techniques
  - Light, isolation specifically and breathable product
  - Plastic consistent, easy and convenient to give detailed pattern
  - Suitable for indoor and outdoor applications
  - Preliminary preparation is very little or not at all.
  - It is fast, unlimited color and size, stone or brick application can perform the same day.
  - Cost of transportation is very low.

**Application Instructions**

Surfaces should be free from all kinds of dust, oil, dirt, rust, mold oil, detergent, etc. surfaces should be smooth, weak parts should be removed. If there is cracks in the floor or wall to be applied, it should be repaired with appropriate TEKNOREP repair mortars. In hot weather, it is recommended to apply TEKNOLATEX 400 as a primer before application. If the application absorbent, then TEKNOLATEX 300 should be preferred as a primer

surface is not TEKNOSERBASKI DUVAR LW is added slowly into clean and cold water and mixed with a low speed mixer for about 10 minutes until the mixture becomes lump free. Mixed mortar has rested for 5 minutes and mixed again. The amount of water required must be adjusted according to the weather conditions. 22 kg TEKNOSERBASKI DUVAR LW, 6-7 liters of water is mixed and then applied to the wall. The prepared mixture should be consumed within 2 hours depending on the weather conditions. For mold press, the appropriate thickness of mortar should be applied to the surface at roughly the same level. After applying the appropriate mold separator to the press molds, it is placed on the wall surfaces with attention to the additional places. After the proper pressure process, the molds are carefully removed from the trowel if they exist on the surface. Simple defects should be corrected with trowel if they exist on the surface.

## Application Notes / Restrictions

- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above +35°C) rain and frost. Cleaning can only be done using mechanical equipment as the hardening will be completed a few days after the application.
- Wash your hands with warm water and soap immediately after application.
- The product may cause sensitization by skin contact. Protective gloves or goggles should be worn and protective cream may be applied before work. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- To obtain different colors TEKNOSER BASKI product can be mixed and applied in one to one ratio.

## Technical Data

General Information	
Color	Grayed out dust
Shelf Life	12 months in dry environment in unopened packaging
Package	22 kg kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixing Rate	6,0 - 7,0 lt water / 22 kg dust
Application Thickness	
Performance Information	
Splice Strength (EN 1542)	≥ 1,2 N/mm <sup>2</sup>
Compressive Resistance	≥ 13,0 N/mm <sup>2</sup>
Capillary Absorption (TS EN 1015-18)	< 0,2 kg/m <sup>2</sup> h <sup>0,5</sup>
Reaction to Fire	A1

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknokür 100

## Acrylic Emulsion Based Concrete Cure Material



Public Pos. No: 04.613/1-F

<b>Product Description</b>	<p>It is a cure material applied after acrylic emulsion based concrete, creed and cement based surface hardener application which avoids mixture water to get vaporized with film layer it formed on surface fast and reduces retreat and crack formation risk. ASTM C 309 Type 1 Class A.</p>
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• It is applied for concrete cure treatment on newly poured concrete and all surface hardener applications.</li><li>• It is used in places such as Car parks, garages, material storehouses, factories, malls where human traffic is intense,</li><li>• All kinds of civil engineering constructions such as highway, barrage, subway, tunnel and bridge</li><li>• Concrete road applications,</li><li>• Industrial structures, airplane hangars, apron areas, helicopter runway.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• It is more refficient and economic than wet material coating and watering type of cure methods.</li><li>• It may be applied on any kinds of concrete surfaces.</li><li>• It reduces cracks occurred due to plastic shrinkage.</li><li>• It reduces shrinkage and crack formation risks.</li><li>• It provides firmer and non-dusting surface.</li><li>• It may comfortably be applied in outer and inner spaces as it doesn't include solvent.</li><li>• It provides the highest resistance development by keeping water within concrete.</li><li>• It is a more efficient and more economical method as an alternative for bag, cuing and watering and such cure methods.</li></ul>
<b>Application Instructions</b>	<p>Application surface should be preserved from external factors for 24 hours during curing treatments in open areas. Protective gloves, glasses and mask should be used during the implementation. Due to materials' irritating influences, the component shouldn't be touched eyes and skin in that case touching should be washed with the plenty of water and soap or in case of engulfment should be consulted to the doctor urgently. Concrete on a non-op n field that prevents the adhesion of the surface prior to application concrete should be cleaned of foreign substances It should be cleared of loose and friable particles.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• It should be implemented by spraying on newly poured concrete homogeneously or by roll.</li><li>• Spraying devices and rolls used in application should be cleaned with warm water. If spray nozzle will be used again, it is suggested to keep nozzle waiting in water.</li><li>• Second layer may be applied in 6 hours following first layer application in order to providing efficient curing in open air and windy places.</li><li>• TEKNOKUR 100 is applied on jigged surfaces of field, road and tiling concretes and surface of formed concrete after removing forms which lost brightness.</li><li>• Mix well before the application, after opening the package.</li><li>• Applying TEKNOKUR 100 by spraying on concrete surface is suggested in order to provide a uniform structure.</li></ul>

- TEKNOKUR 100 should be implemented as a thin layer with roll. Distributing material in a balanced way, standing water should not be allowed to occur.
- In non-homogeneous applications, regional color differences may occur. Regional color differences will reduce in days following the application.
- TEKNOKUR 100, no mistake is seen except tone arising from application thickness or surface structure as it doesn't leave layer on surface in open areas convenient for wear with intense traffic.
- Immediately after application; hands and places contacting with skin using water and soap with warm water and detergent.
- After the application, yet it cures, clean tools using water.
- Product may irritate the skin. Protective gloves and goggles should be used. Protective cream may be applied to hand before starting work.
- In case of eye contact, immediately rinse eyes with warm water and seek medical advice.

## Technical Data

General Information	
Structure	Acrylic Emulsion
Colour	White Liquid
Package	30 kg plastic jerry can 1000 kg IBC
Shelf life	12 months
Density(kg/l)	1,01 (± 0,03)
Drying Time (min.) ASTM C 309	~135

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknokür 400

Emulsion Paraffin Based, Concrete Cure Material



Public Pos. No: 04.613/1-F

**Product Description** It is paraffin based, liquid concrete cure material avoiding fast water losses in concrete.

## Areas of Usage

- It is used on prestressed beams and stakes,
- Car parks, garages, material storehouses, factories,
- Malls where human traffic is intense,
- Airports, concrete roads, channels and canalettes,
- Industrial structures, airplane hangars, helicopter runways etc. places.

## Features and Benefits

- It reduces cracks arising due to plastic shrinkage,
- It helps concrete to get hydrated better with film layer it formed,
- It minimizes shrinkage, reduces dusting on surface,
- It increases frost resistance,
- It is a more efficient and more economical method as an alternative for bag, curing and watering and such cure methods.
- It is convenient for applying in closed areas.
- It is easy to apply.
- It is non-solvent, therefore it doesn't harm human health like cure materials with solvent.

## Application Instructions

It is applied by brush, roll or spray. TEKNOKUR 400 application is applied 0,5-2 hours after ending all template, polishing, hardening application depending on the temperature. Concrete has to receive enough socket in order to avoiding to harm surface during application with brush and roll. Mix well before the application, after opening the package.

Application is carried out by roll, brush or spraying. TEKNOKUR 400 application is applied 0,5-2 hours after ending all template, polishing, hardening application depending on the temperature. Concrete has to receive enough socket in order to avoiding to harm surface during application with brush and roll. Mix well before the application, after opening the package.

## Application Notes / Restrictions

- TEKNOKUR 400 is ready to use; therefore water it shouldn't be diluted with water.
- Shake TEKNOKUR 400 well before use.
- TEKNOKÜR was developed to spray onto surface constantly and in a thin film layer with hand gun or compressed air spraying machines.
- Apply with a low-pressure spray element without forming a pounding on surface.
- Convenient spraying equipment should be stated with tests.
- If it shall be applied successively to wide surfaces or a range of concrete elements, it can be applied with an automatic core spray system.
- Second layer may be applied in 6 hours following first layer application in order to provide efficient curing in open air and windy environments.

- Protect the area TEKNOKUR 400 applied from the rain for at least 2 hours or until drying completely and don't walk on it.
- Solver salt or sea water leaps may cause brightness loss or color change. Clean used tool and application equipment with hot water short after the use.

## Technical Data

General Information	
Chemical Structure	Paraffin Emulsion Based
Appearance	White
Shelf life	12 months
Package	30 kg can 1 ton IBC
Wastage	150 - 250 gr/m <sup>2</sup>
Density (kg/l)	0,98 ± 0,02
Duration of Drying	~135 minutes
Completed Surface Appearance	Transparent, smooth film
Application Temperature	+5°C - +30°C

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknocila 300

## Concrete Varnish and Sealer



CE EN 1504-2

Public Pos. No: 04.613/1-F

**Product Description** Acrylic based, high-performance, dusting-preventive, multi-use concrete varnish, insulation and protection material.

### Areas of Usage

- To protect surfaces with concrete and other cement on buildings and infrastructures
- For grounds and walls with bright appearance demand
- To increase service life of concrete,
- To freshen up bright, colorless and surface which is ready to use for concrete surfaces with apparent aggregate,
- Surfaces surface hardener applied,
- Screed concretes,
- Concrete pouring on hot climates.

### Features and Benefits

- It avoids dusting as it increases wearing resistance of surface.
- It is easy to apply as being one-component.
- It ensures concrete to be resistant against chlorine.
- It dries faster as solvent within removes very fast.
- As it increases sealing, it avoids cracks to occur as a result of liquid frost.
- It is used as polish thanks to bright film layer it formed.
- It protects concrete against atmospheric effects which can penetrate as salt or gases into concrete.
- It decreases showing dirt and color of concrete doesn't change with rain effect.

### Application Instructions

Surface Quality: Surface has to be cleared of loose particles and cleaned from any kinds of materials avoiding to stick and dust, dirt and oil.

Surface Preparation: Exposed concretes in open areas without a coating over should have firm and dry surface and cleared of loose particles. Convenient surface preparation methods should be cleaned with

vapor, high-pressure water or roughening.

TEKNOCILA 300 is ready to use. Don't apply when raining is expected. Resolving salt or sea water leaps may cause brightness lose or color change.

Curing Phase: It doesn't require a special cure treatment, it should only be protected from rain for at least 1 hour by approximately +20°C only (It becomes resistant to dust in 30 minutes). Mix well before application and after opening package. It can be applied by brush or roll with short pile manually or by automatic spraying machines.

## Application Notes / Restrictions

- Immediately after the application, before getting firm; equipment should be cleaned with TEKNO THINNER.
- Immediately after the application, used equipment and places contacting with the skin should be cleaned with warm water and detergent.
- Product may irritate the skin. Protective gloves and goggles should be used. Protective cream may be applied to hand before starting work. In case of contacting mortar with eye, it should be washed with warm water immediately and medical support should be sought.
- As material includes, solvent, it should be avoided to contact with skin and eye, it should be washed with plenty of water in case of contact and medical support should be sought. Protective gloves and goggles should be used and material shouldn't be inhaled.
- As it is a burnable material including solvent, smoking should definitely be forbidden and any fire source such as welding, cutting machines should be kept away.
- Implementer should be rested for a certain period in open area approximately every 30 minutes in application carried out in closed spaces.

## Technical Data

General Information	
Color	Transparent Liquid
Package	17 lt Tin
Shelf Life	12 months in unopened original package
Flashing Point	+90°C
Density (kg/lt)	0,92 (± 0,03)
Application Information	
Pot Life	2 hours
Wastage	Brush, Roll: 0,100 - 0,200 liter/m <sup>2</sup> Spraying: 0,150 - 0,250 liter/m <sup>2</sup>
Temperature of Surface to Apply	(+5°C) - (+35°C)
Dry Film Thickness	135 (±15,00) pm
Complete Cure	5 days
Standards	in accordance with ASTM C 309-81

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknocila 350

## High-Performance Concrete Varnish and Sealer



Public Pos. No: 04.613/1-F

**Product Description** Acrylic based, high-performance, dusting avoiding, multi-purpose concrete varnish, insulation and protection material.

### Areas of Usage

- To protect concrete and other cement surfaces on buildings and their infrastructures,
- For grounds and walls with bright appearance demand,
- In order to increase service life of concrete, aggregate,
- To freshen up bright, colorless and surface which is ready to use for concrete surfaces with apparent
- Surface with applied surface hardening,
- On screed concrete,
- Concrete pouring in hot climates,

### Features and Benefits

- It avoids dusting as it increase wearing resistance of surface.
- It is easy to apply being one-component.
- It helps concrete to be resistant against chlorine.
- It is very fast to dry because solvent within disappears very fast.
- As water increases impermeability, it avoids cracks to form in plasters as a result of freezing.
- It is used as polish thanks to bright film layer it formed.
- It protects concrete against atmospheric effects penetrating as salt or gases into concrete.
- It decreases showing the dirt and color of the concrete doesn't change by the effect of the rain.
- It has high resistance against UV.

### Application Instructions

Surface has to be cleaned from any kinds of materials avoiding to stick and dust, dirt and oil. Exposed concrete in open spaces without concrete should be cleared of lost particles and surface should be solid and dry before the application. Convenient surface preparation methods should be cleaning with vapor, high- pressure water jet or by roughening. TEKNOCILA 350 is ready to use. Mix the package well before application. It can be applied by brush or roll with short pile manually or by automatic spraying machines. Don't apply when raining is expected. Resolving salt or se water lea s may cause loss of brightness or color change. It doesn't required a special cure treatment, it should only be protected from rain by approximately +20°C and for at least 1 hour (It becomes resistant to dust in 30 minutes).

## Application Notes / Restrictions

- Immediately after the application, before getting firm; equipment should be cleaned with TEKNO THINNER.
- Immediately after the application, used equipment and places contacting with the skin should be cleaned with warm water and detergent.
- Product may irritate the skin. Protective gloves and goggles should be used. Protective cream may be applied to hand before starting work. In case of contacting mortar with eye, it should be washed with warm water immediately and medical support should be sought
- As material includes, solvent, it should be avoided to contact with skin and eye, it should be washed with plenty of water in case of contact and medical support should be sought. Protective gloves and goggles should be used and material shouldn't be inhaled.
- As it is a burnable material including solvent, smoking should definitely be forbidden and any fire source such as welding, cutting machines should be kept away.
- Implementer should be rested for a certain period in open area approximately every 30 minutes in application carried out in closed spaces.

## Technical Data

General Information	
Color	Transparent Liquid
Package	17 lt Tin
Shelf Life	12 Months in unopened original package
Flashing Point	+90°C
Density (kg/lt)	0,98 (± 0,03)
Application Information	
Pot Life	2 hours
Wastage	Brush, Roll: 0,100 - 0,200 liter/m <sup>2</sup> Spraying: 0,150 - 0,250 liter/m <sup>2</sup>
Temperature of Surface to Apply	(+5°C) - (+35°C)
Dry Film Thickness	135 (±15,00) µm
Complete Cure	5 days
Standards	In accordance with ASTM O 309-81

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknocila 400

## Water Based Concrete Varnish and Sealer



### Product Description

It is a white surface protection which is water based, high-performance, acrylic based and doesn't disappear on surface and specially developed as last layer varnish material for transparent, mineral surfaces.

### Areas of Usage

- On concrete surfaces such as self-leveling required to be protected against water,
- As protection on some decorative ground and wall coatings such as marble effect.
- As an alternative on places where wet effect given by concrete polishes with solvent are not demanded.

### Features and Benefits

- It prolongs service life of cement based coatings.
- It is water-resistant.
- It is resistant against many stains and chemicals.
- It doesn't prevent transition of water vapor.
- It increases wearing resistance of the surface and prevents dusting.
- It is easy to apply because of being one-component.
- It doesn't involve solvent within.
- It is used as polish thanks to semi-lustrous film layer it formed.
- It reduces to show the dirt and color of the concrete doesn't change by the effect of the rain.
- Cleaning can be made by water after the application as product is water-based.

### Application Instructions

TEKNOCILA 400 (polishing) which is ready to use is applied on surfaces which completed cure and rubbed down with the help of brush, roll, sponge or spraying machines as 2 layers. Shake the product before use! Application tools should be washed with water immediately after the use. Temperature of the environment and surface to apply should be minimum +5°C during the application and following 24 hours.

### Application Notes / Restrictions

- Product may irritate the skin. Protective gloves and goggles should be used. Protective cream may be applied to hand before starting work.
- In case of contacting with eyes, eyes should be washed with warm water immediately and medical support should be sought.
- More layers should be applied to protect excessive absorber surfaces against water.
- Brightness of surface will increase as long as amount of consumption increases.
- More layers should be applied for water resistance.
- More layers should be applied for water resistance in applications made by excessive dilution.

## Technical Data

General Information	
Appearance	White liquid
Intensity	1,03±0,03 gr/cm <sup>3</sup>
Structure	Acrylic Emulsion Based
Package	10 and 30 liter metal and plastic bins
Shelf Life	12 months
Duration of Drying	Completely drying and hardening; 7 days Waiting Period Between Layers; 2-3 hours
Surface and Environment Temperature	Between +5°C - +35°C
Touch Dry	~60 min. (20°C temperature)
Waiting Period Between Layers	2 hours
Consumption	0,1 -0,15 lt/m <sup>2</sup>
Taber Abrasion Resistance (TS 8103 EN ISO 5470-1) (CS 10 tires, 1000 gr weight , 1000 cycles)	Max. 60 mg (TEKNOCILA 400 provides 65% more abrasion resistance than TEKNOSELF 500 surface which is not applied.)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity and valid for its performance after 27 days.

# Teknoayrac

Mold-release Agent Providing Distressed Appearance for Stamped Concrete



**Product Description** It is a one component, pulverized product which provides both mold-release agent and colorant, distressed surface appearance in stamped concrete systems.

**Areas of Usage**

- Inner and outer spaces,
- Vehicle and walking trails, pavements ,
- Malls, fair areas,
- It is used in molds used on stamped concrete systems.

**Features and Benefits**

- It avoids stamped concrete system molds to stick on concrete and breakage of edges.
- It avoids mold to separate from concrete easily and fast.
- It allows mold figures to reflect on concrete surface completely.
- It leaves distressed-impression on applied TEKNOSERBASKI surface.

**Application Instructions**

After TEKNOSERBASKI application, TEKNOAYRAC pulverized material is scattered on surface completely. Printing system by molds is applied. Pressurized washing treatment is applied depending on required surface 1-2 days later. As high-pressure washing creates less- distressed view, low-pressure washing creates a more distressed surface view.

It should be protected against negative weather conditions such as direct sunlight, strong wind, high air temperature (over +35°C), rain and frost after the application. As hardening will be completed a few days after the application, cleaning can be done only by using mechanical equipment. Immediately after the application, just be ore becoming hard, equipment should be washed with water and hands should be washed with clean arm water and soap.

**Application Notes / Restrictions**

- Product may irritate the skin.
- Protective gloves, mask and goggles should be used.
- In case of using less than required, demanded decorative image may not be obtained
- In case of contacting mortar with eyes, eyes should be washed witwarm water and medical advice should be sought.
- Product may irritate the skin. Protective gloves, mask and goggles should be used, protective cream may be applied to hand before starting to work.
- In case of contacting mortar with eyes, eyes should be washed with warm water and medical advice should be sought.

## Technical Data

General Information	
Appearance	White and grey powder
Package	20 kg-Kraft bag
Shelf Life	12 months
Wastage	Approx. 0,200-0,400 kg/m <sup>2</sup>

# Teknoayrac Sivi

## Liquid Mold-release Agent for Stamped Concrete



**Product Description** It is a one component, liquid product which provides both mold-release agent and colorant, distressed surface appearance in stamped concrete systems.

**Areas of Usage**

- Inner and outer spaces,
- Vehicle and walking trails, pavements,
- Malls, fair areas,
- It is used in molds used on stamped concrete systems.

**Features and Benefits**

- It avoids stamped concrete system molds to stick on concrete and breakage of edges.
- It avoids mold to separate from concrete easily and fast.
- It allows mold figures to reflect on concrete surface completely.
- Surface applied leaves distressed impression on concrete surface with hardener.
- It may affect in different colors.

**Application Instructions**

After concrete hardener application, TEKNOAYRAC SIVI is scattered on surface completely. Printing system by molds is applied. Pressurized washing treatment is applied depending on required surface 1-2 days later. As high-pressure washing creates less-distressed view, low-pressure washing creates a more distressed surface view.

Wastage: Approx. 400 gr - 100 gr

Cleaning: It should be protected against negative weather conditions such as direct sunlight, strong wind, high air temperature (over +35°C), rain and frost after the application. As hardening will be completed a few days after the application, cleaning can be done only by using mechanical equipment.

Cleaning of Equipment: Immediately after the application, just before becoming hard, equipment should be washed with water and hands should be washed with clean warm water and soap.

Duration of Cleaning: Approx. 4 hours- 20°C

**Application Notes / Restrictions**

- Product may irritate the skin.
- Protective gloves, mask and goggles should be used.
- Protective cream may be applied to hand before starting work.
- In case of contacting with eyes, eyes should be washed with warm water immediately and medical advice should be sought.
- It should be applied by spraying both to mold surface and on mortar in TEKNOSERBASKI DUVAR application.

### Technical Data

General Information	
Color	Transparent
Density of Liquid	~1,00
Package	17 ltTin
Shelf Life	12 months in unopened origin package. Keep in dry environment.

# Teknoself

## Self-levelling Ready to Use Screed



Public Pos. No: 04.613/3-C

**Product Description** It is one-component, self-levelling, synthetic polymer reinforced floor levelling mortar of which sticking adhesion power is increased and which is specially formulized for thin applications.

**Areas of Usage** It is used as levelling screed under the materials such as tile, ceramic, granite ceramic, marble, natural granite, parquet, PVC and carpet in outer and inner spaces.

- Features and Benefits**
- It has self-levelling and rapid freezing features.
  - It is resistant against furniture and wheel chair load.
  - It doesn't crack even with too thin thicknesses and adheres perfectly.
  - It may be used on floors with floor heating.
  - It is easy to apply

**Application Instructions**

Surfaces should be clear, smooth and solid and should be cleared of substances and wastes preventing to adhere such as any kinds of dust, oil, dirt, rust, molding oil, detergent. Surfaces should be balanced, weak parts should be removed. If there is crack or cavity on floor or wall to make application, it should be repaired by convenient TEKNOREP repair mortar. TEKNOSELF application should be carried out 3-4 days later. Concavities on surface should be repaired by TEKNOREP. No dirt and rust should be available on surface. Dry surfaces should be moisturized slightly but no waterhole should be left. TEKNOLATEX 500 should be used on absorber surfaces and TEKNOLATEX 300 should be used on bright surfaces.

Prepared material is poured on ready-primed floor by spreading. Spiked roller may be used in order to eliminate air bubbles on surface. If primer is not used, then smoothness on the surface can't be obtained as required.

After completing the application, it shouldn't be exposed to strong winds and frost. Therefore protection measurements should be taken.

- Application Notes / Restrictions**
- It should be protected against negative weather conditions such as direct sunlight, strong wind, high air temperature (over +35°C), rain and frost after the application.
  - Application thicker than 10 mm can't be made on one layer. Applications thicker than 10 mm should be poured layer-by-layer. TEKNOSELF 500 may also be preferred for thicker applications.
  - Floor should be protected from contacting with water after the application. It shouldn't be used places where are always exposed to water.
  - It can exceed after min. 24 hours depending on ambient temperature. However it is advised to wait at least 3 days in order to make treatment.
  - Cleaning should be made with water before TEKNOSELF is cured. As hardening will be completed a few days after the application, cleaning can only be done by using mechanical equipment.
  - Immediately after the application, just before becoming hard, equipment should be washed with water and hands should be washed with clean warm water and soap.

## Technical Data

General Information	
Appearance	Grey powder
Shelf Life	12 months in unopened packed on dry environment
Package	25 kg kraft bag
Grain Size	Dmax: 0,3 mm
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Rate	6,0 - 6,5 lt water / 25 kg powder
Duration of Process	Min. 30 mn.
Density of Mortar	2,08 ±0,1 kg/lt
Duration of Putting into Service	Approx 24 hours
Consumption	1,7 kg/m <sup>2</sup> for 1 mm
Thickness of Application	0-5 mm
Performance Information	
Bending Resistance (28 days)	≥ 5,0 N/mm <sup>2</sup>
Pressure Resistance (28 days)	≥ 25,0 N/mm <sup>2</sup> (TS EN 196-1)
Adhesion Resistance (28 days)	≥ 2.0 N/mm <sup>2</sup>

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20 °C temperature and 50% relative humidity rate.

# Teknoself 500

Self-levelling, Thick-applicable  
Ready to Use Screed



## Product Description

It is self-levelling, synthetic polymer reinforced floor levelling mortar of which sticking adhesion power is increased and which is specially formulized for industrial floors.

## Areas of Usage

- It is used as levelling screed under the material granite, parquet, PVC and carpet in outer and inner such as tile, ceramic, granite ceramic, marble, natural spaces.
- On floors with floor heating,
- On places requiring high resistance (Hospitals, industrial floors etc.),
- On places requiring thick self levelling applications,
- On floors of stores and showrooms.

## Features and Benefits

- It has self-levelling and rapid freezing features.
- It may be opened to traffic approximately in 1-2 hours. It becomes available for tiling approximately after 15 hours.
- It is resistant against furniture and wheel chair load.
- It doesn't crack even with too thin thicknesses and adheres perfectly.
- It may be used with floors with floor heating.
- It is easy to apply.
- Surface can be grinded.
- It may easily be opened for direct use by applying Teknocila 400.
- It is 3mm thick with 20°C temperature and 65% relative humidity.

## Application Instructions

Surfaces should be clear, smooth and solid and should be cleared of substances and wastes preventing to adhere such as any kinds of dust, oil, dirt, rust, molding oil, detergent. Surfaces should be balanced, weak parts should be removed. If there is crack or cavity on floor or wall to make application, it should be repaired by convenient TEKNOREP repair mortar.

TEKNOLATEX 500 should be used on absorber surfaces and TEKNOLATEX 300 should be used on bright surfaces for better adherence and less surface defect before the application. Prepared material is poured by spreading on ready-primed floor. Spiked roller may be used in order to eliminate air bubbles on surface.

Using a low-speed rill and mixer tip is advised in order to provide homogeneous mix. 6,0 - 6,5 lt water is put into the bucket, then powder material is added slowly, mixing is continued until a homogenous mix is obtained. Amount of mixture water may change depending on ambient temperature. Completely mixed material should be used by spreading and smoothing for 30 minutes depending on ambient temperature.

It should be protected against negative weather conditions such as direct sunlight, strong wind, high air temperature (over 35°C), rain and frost after the application. Cleaning should be done by water before Teknoself 500 is completely cured and hardened. As hardening will be completed a few days after the application, cleaning can be done only by using mechanical equipment.

## Application Notes / Restrictions

- Immediately after the application, just before the hardening, equipment should be washed by water and hands should be washed by clear warm water and soap.
- It shouldn't be exposed to strong winds, frost after completing the application. Therefore protection measurements should be taken.
- Floor should be protected from water after the application.
- It is not used at places where always expose to water.
- Temperature of the floor shouldn't be lower than 10°C during curing. Low temperatures may affect the curing process negatively.
- If floor to make application will be left open, then it is polished by Teknocila 400 (polish) and keeping more resistant against environmental effects is ensured.

## Technical Data

General Information	
Appearance	Grey powder
Shelf Life	12 months in unopened packed on dry environment
Package	25 kg kraft bag
Grind Size	Dmax: 0,3 mm
Application Information	
Application Temperature	(+5°C) - (+35°C)
Mixture Rate	5,0 - 6,0 lt su / 25 kg powder
Duration of Process	20-30 min.
Density of Mortar	1,8 ±0,1 kg/lt
Duration of Putting Into Service	Approximately 18 hours
Consumption	1,8 kg/m <sup>2</sup> for 1 mm
Thickness of Application	At least 2 mm should be applied.
Performance Information	
Bending Resistance (28 days)	≥ 7,0 N/mm <sup>2</sup>
Pressure Resistance (28 days)	≥ 35,0 N/mm <sup>2</sup> (TS EN 196-1)
Adhesion Resistance (28 days)	≥ 2.0 N/mm <sup>2</sup>

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 28 days, which are obtained at + 20 °C temperature and 50% relative humidity rate.

# Teknobond 100

Epoxy Based, Two Component Primer with Solvent



## Product Description

It is epoxy resin based, two component epoxy primer with solvent which is resistant to normal service conditions and chemicals and which can be applied on concrete metal, wood, plaster and plaster cast surfaces.

## Areas of Usage

- It can be applied on concrete surfaces in outer and inner spaces.
- Its splice strength on metal surfaces is high.
- It can be used in factories where chemical products are produced or places exposing to chemicals.
- In nourishment factories. It is also appropriate for bright surfaces such as tile, granite and wall, ceiling and furnishings.

## Features and Benefits

- It is chemically and mechanically high-resistant and forms a hard film.
- It is resistant against diluted acids, diluted and intense alkaline, cleaning detergents and disinfectants, fresh water and sea water, diesel oil, gasoline, alcohol and many other solvents.
- It is resistant against bacterial reproduction.
- Hygienic. Effaceable.

## Application Instructions

Concrete and plasters should be cured at least for 28 days. It is applied after Mortar residual etc. on cured surface is removed by slight sandblasting or brushing. Loose specks such as old dirt, dust etc. on old concrete and plaster surface are removed by sandblasting, scarifying and brushing methods. Oil and grease residuals are cleaned by detergent water. If neutralization is required, surface is wiped with 3-4% hydrochloric acid or acetic acid solution and washed with water. TEKNOBOND 100, concrete surface moisture should be under 4%. If situations requiring repair such as crack, cavity exist on the surface, it should be repaired by convenient TEKNOREP.

After mixing A component well, B component is added and mixed with a low speed drill for 2-3 minutes until obtaining a homogenous mix. Material more than the amount to be applied throughout pot life shouldn't be prepared.

Before completing TEKNOBOND 100 cure, it shouldn't be allowed to leap water on it and to open to pedestrian traffic. Duration for opening to traffic is minimum 24 hours.

Mixing should be carried out with low-speed mixer. Mixing with hand should be avoided. Resin and hardener may be applied evenly by mixing after being weighted on a sensitive balance for minor applications. 0,150 kg/m<sup>2</sup> (it may change depending on surface.)

## Application Notes / Restrictions

- It should be protected against negative weather conditions such as direct sunlight, strong wind, high air temperature (over +35°C), rain and frost after the application.
- When waiting period between layers is exceeded, surface should be roughened with corundum for a good adhesion.
- As reaction will end and hardening will be completed soon after the application, places contacting with skin should be cleaned with detergent and water.
- Immediately after the application, just before the hardening, equipment should be cleaned by TEKNOTHINNER.
- Product may irritate the skin. Protective gloves, mask and goggle should be used. Protective cream may be applied to hand before starting work. In case of mortar contact with eye, eyes should be washed with warm water immediately and medical support should be sought.

## Technical Data

General Information	
Color of Mixture	Transparent
Density (A+B)	1,00±0,05 kg/lt
Duration of Application	~1 hour
Package	20 kg set
Shelf Life	12 months
Waiting Period Between Layers	24 hours at least; 48 hours the most.
Application Temperature	+5°C, +35°C
Full Durability	7 days
Temperature Resistance	(-20°C) - (+60°C)
Mixture Ration	4 Units A component, 1 Unit B component (By weight) 4 Units A component, 1 Unit B component (By volume)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknobond 110

## Polyurethane Based Primer Material with Solvent



CE TS EN 1504 – 2

**Product Description** It is one component polyurethane primer material including solvent. TEKNOBOND 110 is basically used as primer material at pre-treatment of polyurethane based materials.

- Areas of Usage**
- It is used in order to immobilize dusting and crumbling surfaces,
  - To increase abrasion resistance of mineral-based surfaces and to obtain high adherence on surfaces to make polyurethane coating.
  - It increases adherence of material to come onto it by applying before adhesive or coating application on wooden, concrete etc. absorber surfaces.
  - It is used as bituminous surface primer under polyurethane isolation coatings especially on roof applications. Solvents used in material has no negative effect on bituminous surfaces.

- Features and Benefits**
- It is transparent and includes solvent and is not effected by weather conditions.
  - Resistant against salty water, salt solutions, diluted acids, aliphatic solvents, gasoline and mineral oils.
  - It deeply penetrates into all mineral and concrete surfaces with adherence.
  - It is fast and easy to apply.
  - It reduces water absorption of concrete and fills non-structural capillary cracks.
  - It ensures two-stage protection as it ensures permanent water impermeability on surface.
  - It creates an impermeable surface by filling pores on gas concrete and similar surfaces.
  - It increases adhesion power of boat repair and filling putty.

**Application Instructions**

Surface Quality: Concrete and plasters should be cured for at least 28 days. Mortar residual etc. on cured surface is applied after removing with slight sand blasting or brushing. Loose specks such as old dirt, dust etc. on old concrete and plaster surface are removed by sandblasting, scarifying and brushing methods. Oil and grease residues are cleaned by detergent water. If neutralization is required, surface is wiped with 3-4% hydrochloric acid or acetic acid solution and washed with water. Before applying Teknobond 110, you should be careful that surface is completely dry.

Surface Preparation: Surface to apply should be cleared of any kinds of oil, rust, detergent etc. adhesion-avoiding substances and loose specks. Surface humidity of the concrete should be under 4%. If situations requiring repair such as crack, cavity exist on the surface, it should be repaired by convenient cement based (TEKNOREP) or epoxy based mortars (TEKNOBOND 400).

It will be helpful to conserve at a place under 20 - 30°C one day before TEKNOBOND application day. TEKNOBOND 110 primer material which is one-component, ready-to-use and reacting with moisture should be applied by transferring the pot as much as amount to be used (without adding different mixtures). It is applied to cleaned surface by the help of brush or roll and by directly administering continuously. Approximately 20-50 micron (dry film) is applied on each layer. Primer applied floor should be protected from water for 3-4 hours.

Curing Phase: It shouldn't be allowed to leap water onto it or to open to the traffic before TEKNOBOND 110 completes its cure. Duration of opening to the traffic is minimum 24 hours.

TEKNOBOND 110 is applied as one layer or two layer depending on pore amount on the surface and tissue of the surface. If primer application is to be made two-layer; second layer should be applied before first layer completely dries but when it is adhesive. Right time can be determined by checking adhesion of primer layer by hand. If it is applied earlier, removing volatile will get hard and this will have undesired effects on next coatings. In case of applying second layer too late, then adhesion will be effected negatively. Primer will get dry fast under hot weathers and for applications which are especially made on surfaces which is directly exposed to sun. In that cases, applying second layer shouldn't be delayed.

Cleaning: It should be protected against negative weather conditions such as direct sunlight, strong wind, high air temperature (over +30°C), rain and frost after the application. As hardening will be completed in a short while after the application, required care must be taken and hands should be washed by water and soap.

## Application Notes / Restrictions

- It includes solvent, burnable. Don't get close with open flame and don't smoke during the application.
- TEKNOBOND 110 is cured by air. If administered as a thick layer, it forms foam.
- Application should be carried out in layerform.
- Relative humidity shouldbe between 40% 90% for TEKNOBOND 110 toreceive its cure completely.
- Before coating, it should be waited to remove solvent inside completely.
- Work open and only where sufficient ventilation is ensured. Consider that sufficient solvent smell may consist in closed spaces.
- It should be considered that floor temperature is 3°C over the dew point.
- Usegloves, gogglesandprotectiveclothes. Washwithsoapandwaterincaseofcontactwithskin.
- It is applied with brush with short hard haired brush or roll with short piles.
- Immediately after the application, just before the hardening, equipment should be cleaned by TEKNOTHINNER.

## Technical Data

General Information		
Color	Light yellow	
Base Polymer	Polyurethane	
Package	3 kg or 15 kg tin package	
Shelf Life	12 months in dry environment in unopened package	
Wastage	100 - 250 gr/m <sup>2</sup> (it may change depending on the surface.)	
Application Information		
Water Resistance	No leaking (1m water column, 24 hours)	DIN EN 1928 Test A
Toughness	> 95 (Shore A)	DIN EN 1928 Test A
Adhering to concrete surfaces	>1,50N/mm <sup>2</sup>	ASTM D 903
Tack Free @23°C 4 hours	4 hours	
Waiting period for the upper layer at least @23°C	2 hours	
Waiting period for the upper layer the most @23°C	24 hours	
Full Curing Period	1 - 3 days	
Application Temperature	+8°C - +30°C	
Hand Drying	2-4 hours	

# Teknobond 120

Epoxy Based, Two Component,  
Water Based Primer



**Product Description** Solventless, water based epoxy resin based two component primer.

## Areas of Usage

- It may be applied on concrete surfaces in outer and inner spaces.
- It may be used in factories where chemical products are produced or places exposed to chemicals.
- In food factories. It is also suitable on glossy surfaces such as granite, tile and for wall, ceiling and floorings.
- As primer on surfaces which are moisture and the places which moisture is increasing.

## Features and Benefits

- Easy and fast application
- It is suitable for especially quite absorbent surfaces.
- Water based and odourless
- It can be used in places without ventilation.
- It has very good adherence resistance at all application temperatures.
- It is environment friendly.
- Water vapor permeability is available.
- Suitable for potable water.

## Application Instructions

Concrete surface should be clean, steady and adequate compressive strength (minimum 25 N/mm<sup>2</sup>), minimum tensile strength (pull off) 1,5 N/mm<sup>2</sup>. The surface may be damp but not free water (no accumulated on the surface) and should be free from foreign materials such as dirt, oil, coating surface curing materials. Concrete surfaces should be prepared to obtain an open porous surface by removing cement sherpbet using abrasive equipment. The weak concrete should be removed, the eyelet gaps, the holes should be made completely open. Surface repairs, eyelet gaps/holes, filling and surface correction should be done with TEKNOREP. High places on the surface should be abrasive, sanded and cleaned. All dust, loose and friable particles should be removed from the surface with a brush and/or vacuum cleaner before application of the product.

After the component A is thoroughly mixed, the component B is added and mixed with a low speed drill for 2- 3 minutes until a homogeneous mixture is obtained. The material should not be prepared more than the amount that can be applied for the duration of the mixing life. Leaping water or opening for pedestrian traffic shouldn't be allowed before TEKNOBOND 120 completes its cure. Duration to open to traffic is 24 hours.

It should be made with low-speed mixer. Mixing with hand should be avoided. Resin and hardener may be applied by mixing after weighing on a sensitive balance in same amounts for smaller applications.

## Application Notes / Restrictions

- Product may irritate the skin. Protective gloves, mask and goggles should be used.
- In case of contacting with eyes, eyes should be washed with warm water immediately and medical advice should be sought.
- Immediately after application, equipment should be cleaned with water before curing.
- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above +35°C) rain and frost.
- As soon as the reaction is finished and the hardening is complete, the areas in contact with the skin should be cleaned with water and detergent.
- If the waiting period between layers is exceeded, the surface should be sanded for good adhesion.

## Technical Data

General Information	
Color of the Mixture	Transparent Yellow
Intensity	A Component : 1,05±0,03 (g/ml) B Component : 1,10±0,03 (g/ml) (EN ISO 2811 -1) Mixture : 1,07±0,03 (g/ml)
Pot Life	2-3 hours
Package	15 kg set
Shelf Life	12 months
Waiting Period Between Layers	Min. 24 max. 48 hours
Application Temperature	+ 5°C, +35°C
Full Strength	7 days
Temperature Resistance	(-20°C)-(+ 60°C)
Mixture Ratio	11 Unit A component, 4 Birim B Component (By weight)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknobond 300

Epoxy Based, Two Component, Low Viscosity Primer



CE EN 1504-2

**Product Description** Teknobond 300 is a two component, low viscosity, solvent free epoxy resin primer.

## Areas of Usage

- Lining concrete surfaces, cement screed and epoxy mortars,
- On normal, hot surface, moist and wet surfaces,
- As a primer before all epoxy and polyurethane floor coverings,
- As a binder for epoxy based levelling mortar and mortar coverings,

## Features and Benefits

- Low viscosity
- Has good penetration properties,
- High bond resistance,
- Solvent free,
- Easy to implement,
- Waiting times are short,
- All purpose
- It can be used outdoors,

## Application Instructions

**Surface Preparation:** The application surface should be free of all kinds of dust, dirt, weak and friable particles, cement sherbet residues, oil and grease and dry. Concrete substrate must be clean, robust and sufficiently Compressive Resistance (at least 25 N/mm<sup>2</sup>), tensile strength (pull off) at least 1.5 N/mm<sup>2</sup>. Application surface, to ensure maximum adhesion resistance, pressurized air holding, etc. it must be cleaned using methods.

**Mixing:** After adding component B to component A, mix it for 2-3 minutes until it has a homogeneous color (up to 400 RPM) with a low speed electric stirrer.

Make sure that a continuous, nonporous layer is covered by the surface. If necessary, apply two storey of primer. Teknobond 300 NB can be applied with brush, roller or spray gun. Immediately after application, tools should be cleaned with TEKNOTHINNER without hardening. Hardened product can only be mechanically cleaned.

## Application Notes / Restrictions

- Do not use it below the permitted minimum temperature to complete the hardening of the material. Low temperatures will slow hardening and high temperatures will speed hardening. Pot life will vary depending on the temperature.
- The floor temperature without curing should be at least 3°C above the condensation point.
- The product may cause sensitization by skin contact. Protective gloves, mask and goggles should be worn. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- +5°C below the product stored for a long time can be observed crystallization. If the crystals are dissolved, the product can be used without any problems by returning to room temperature.
- Color losses can be yellowing of the product, which is hardened due to direct sunlight (UV).
- In areas where water clear color and long term UV resistance is expected, TEKNOBOND 350 should be used.

## Outlay

Primer : 300-500 gram / m<sup>2</sup>  
 Bedding Mortar: 1,4 - 1,6 kg / m<sup>2</sup> / mm (Quartz sand varies depending on the amount)  
 Repair Mortar : 2,0 - 2,2 kg / m<sup>2</sup> / mm (Applications using quartz sand up to 10 times by weight)

## Technical Data

General Information		
Chemical Structure	Solvent free Epoxy	
Color	Transparent Yellowish Liquid	
Shelf Life	12 months from the date of production in its original packaging	
Package	A Component: 10 kg can B Component: 5 kg can A+B Components: 15 kg set	A Component:400 kg (2 tub) B Component: 200 kg tub A+B Components: 600 kg set (3 tub)
Application Information		
Mixture Density	1,10±0,02 g/ml (EN ISO 2811-1)	
Pot Life	≥ 30 minutes (It depends on the weather conditions)	
Waiting Period Between Layers	Min 24 hours, max 3 days (+20°C)	
Mixture Ratio	2 Component A : 1 Component B (Weight)	
Full Strength	7 days (+20°C de)	
Surface/Environment Temperature	Min +10°C / Max +30°C	
Surface Humidity Content	< 4% (Weight)	
Relative Humidity	It should be max %80	
Performance Information		
Bending Resistance (7 days)	≥ 30 N/mm <sup>2</sup>	(TS EN 196-1)
Compressive Resistance (7 days)	≥ 90 N/mm <sup>2</sup>	(TS EN 196-1)
Concrete Adhesion Strength	≥ 4 N/mm <sup>2</sup> (From Concrete)	(TS EN 4624)
Steel Adhesion Strength	< 3 N/mm <sup>2</sup>	(TS EN 4624)
Shore D Hardness (7 days)	83	
Thermal Strength	Continuous: +50°C max 7 days: +80°C	

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative humidity rate.

# Teknobond 300 NB

## Epoxy Primer For Wet Surfaces



### Product Description

Teknobond 300 NB is epoxy based, two component, low viscosity, solvent free, primer for moist and wet surfaces.

### Areas of Usage

- Lining concrete surfaces, cement screed and epoxy mortars,
- On normal, hot surface, moist and wet surfaces,
- As a primer before all epoxy and polyurethane floor coverings,
- As a binder for epoxy based bedding mortar and mortar coverings,

### Features and Benefits

- It acts as a moisture barrier by providing very good adherence to moist and wet surfaces
- Low viscosity,
- Has good penetration properties,
- High bond resistance,
- Solvent free,
- Easy to implement,
- Waiting times are short,
- All purpose
- It can be used outdoors,

### Application Instructions

The application surface should be free of all kinds of dust, dirt, weak and friable particles, cements, herbicide residues, oil and grease and dry. Concrete substrate must be clean, robust and sufficiently Compressive Resistance (at least 25 N/mm<sup>2</sup>), tensile strength (pull off) at least 1.5 N/mm<sup>2</sup>.

Application surface, to ensure maximum adhesion resistance, pressurized air holding, etc. it must be cleaned using methods.

After adding component B to component A, mix it for 2-3 minutes until it has a homogeneous color (up to 400 RPM) with a low speed electric stirrer.

Make sure that a continuous, nonporous layer is covered by the surface. If necessary, apply two storeys of primer. Teknobond 300 NB can be applied with brush, roller or spray gun.

Immediately after application, tools should be cleaned with TEKNO THINNER without hardening. Hardened product can only be mechanically cleaned.

## Application Notes / Restrictions

- Do not use it below the permitted minimum temperature to complete the hardening of the material. Low temperatures will slow hardening and high temperatures will speed hardening. Pot life will vary depending on the temperature.
- The floor temperature without curing should be at least 3°C above the condensation point.
- The product may cause sensitization by skin contact. Protective gloves, mask and goggles should be worn. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 0°C below the product stored for a long time can be observed crystallization. If the crystals are dissolved, the product can be used without any problems by returning to room temperature.
- Color losses can be yellowing of the product, which is hardened due to direct sunlight (UV)

## Technical Data

General Information	
Chemical Structure	Epoxy Resin Based
Color	Transparent Liquid
Package	16 kg set
Shelf Life	12 ay
Consistency	A Component : 1,10±0,02 (kg/lt) B Component : 1,03±0,02 (kg/lt) (EN ISO 2811-1) Mixture: 1,10±0,02 (kg/lt)
Bending Resistance (7 days)	> 30 N/mm <sup>2</sup> (TSEN 196-1)
Compressive Resistance (7 days)	> 75 N/mm <sup>2</sup> (TSEN 196-1)
Concrete Adhesion Strength	> 4 N/mm <sup>2</sup> (FromConcrete) (TSEN4624)
Steel Adhesion Strength	> 3 N/mm <sup>2</sup> (TSEN4624)
Pot Life (23°C , % 50 Moisture}	40 mn. (it depends on weather conditions)
Mixture Ratio	100 Unit A : 60 Unit B (Weight)
Full Strength	7 Days

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative humidity rate.

# Teknobond 300 Enjeksiyon

## Low Viscosity Epoxy Injection Resin



**Product Description** It is an injection product with two component, epoxy based and solvent-free

### Areas of Usage

- Reinforced concrete construction, prefabricated construction elements, stone and solid brick structures.
- It is used in all kinds of engineering constructions such as highways, bridges, tunnels, metro, and in reinforcing the structure by filling static cracks.

### Features and Benefits

- Excellent adherence to concrete and steel surfaces
- It can be applied very easily with simple kits that are mounted to the front of the hand drill.
- Non-shrink
- It can be applied in dry and low humidity environment.
- After the product completes curing, it has higher compressive pull-off strength than concrete.

### Application Instructions

There should be no loose particles in the cracks by keeping compressed air in the cracks to be applied. Static cracks to be applied should be dry. The surface should be become to be applied epoxy injection resin with heaters etc. In the summer months, the product will react very quickly, so it is recommended that the application should be done in mornings or nights.

The epoxy injection applications can be done in two different ways.

1) Adhesive Bonding Method: Through the cracks, the nipples with the hole are adhered to the concrete surface by using TEKNOBOND 400 for once at 20 cm in the middle of the cracks. After TEKNOBOND 400 is hardened, it is pulled with a spatula or trowel between epoxy nipple during injection with the same product.

to prevent leakage between the cracks

2) Drilling Method: Through the cracks and in the middle of the cracks, holes are made at intervals of 20 cm. There should be no loose particles, dirt and dust in the holes. By keeping the compressed air, the dust and loose particles in the holes are removed. After then, the expansion bolts are placed to the holes. TEKNOBOND 400 is applied to the around of the expansion bolts and between the holes with spatula and trowel to prevent epoxy from coming out of the cracks. TEKNOBOND 300 ENJEKSIYON is two-component and should be stored at room temperature for approximately 24 hours before application. Components A and B should be mixed with a low-speed mixer (under 400rpm) and should be mixed with mixer until homogenous consistency is obtained. It is recommended to continue mixing for a short time by transferring the mixture to a clean plate to avoid making compound mistakes. The prepared mixture is ready to be applied bubbles to be removed.

after a short period of waiting for air No special curing method is required. It is cured by reaction with mixing component A and component B proportionally.

Depending on the drilling and adhesive bonding methods, cracks injection is made on the surface that the surface preparation is completed. The application can be made with one-component and high compressed injection pump. Manual or motorized pump can be used. The prepared mixture is transferred to the injection pump and injected into the cracks with the help of injection expansion bolt. Injection should be made from bottom to top and injection resin should not be leaked from the front area of the cracks. Injection application should be continued until loss of pressure is shown on the compression meter and the resin should certainly be penetrated even in the hair crack. The application can be made by pouring in special cases (wide cracks in the surface etc.) For more information contact our technical services.

## Application Notes / Restrictions

- The application should not be made at temperatures below 5°C. Epoxy-based products have limited pot life. Pot life and drying time will decrease at high temperature and will extend at low temperature.
- Mixing should be done to be used immediately in an especially hot environment. The mixture which has started to become gelling should not be applied.
- After the application, clean with TEKNOTHINNER immediately.

## Technical Data

General Information	
Appearance of Component A	Clear, liquid
Appearance of Component B	Yellow, clear, liquid
Appearance of compound of Component A and B	Straw yellow, liquid
Viscosity of Components A and B mixed	600 - 800 mPa.s (at + 23°C )
Density of Component A (+ 20°C)	1,07±0,02 kg/lt
Density of Component B (+ 20°C)	1,02 ±0,02 kg/lt
Density of Components A and B mixed (+ 20°C)	1,04±0,02 kg/lt
Mixture Proportion	10,25:4,75-A:B (by weights)
Pot life	~35 minutes (+ 20°C /1 lt)
Package	5 kg set
Application Information	
Reaction Time	1 - 3 hours
Full curing period	7 days
Bending Resistance	> 25 N/mm <sup>2</sup> (TS EN196-1)
Compressive Resistance	> 55 N/mm <sup>2</sup> (TS EN196-1)
Bond Strength	> 4 N/mm <sup>2</sup> (Break off from the concrete) (EN4624)

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative humidity rate.

# Teknobond 350

## Clear Epoxy Casting Resin



**Product Description** Water clear casting epoxy resin with two component, low viscosity

### Areas of Usage

- Can be used as a priming coat on epoxy floor coverings.
- Water sealing, filling concrete and cracks
- It is used in electricity and souvenir sector as a casting resin

### Features and Benefits

- It is clear and therefore can be applied to many surfaces as a priming coat or finishing coat
- TEKNOBOND 350 can also be used in lamination works.

### Application Instructions

**Surface Quality:** The loose particles on the surface are removed. Dirt, oil, rust are cleaned. It is ensured that the surface humidity is less than 4% relative humidity.

**Surface Preparation:** The holes are filled by putting sand into the TEKNOBOND 350 sufficiently and the damaged surfaces are repaired. After 6 hours, TEKNOBOND 350 is applied in one direction firstly and then in other direction by roller.

**Surface and Environment Temperature:** +5°C - +30°C

**Compound:** The proportionally prepared components A and B are mixed with a low-speed mixer, the mixing application is continued until homogenous consistency is obtained. TEKNOBOND 350 set can be used in small quantities considering the mixture proportion.

**Application Method/Equipment:** It is used with bristle brush, roller, spraying machines or manual.

**Consumption:** In theory, depending on the surface condition and concrete quality, it is 0,300-0,500 kg/m<sup>2</sup>. Except for sand put into the epoxy.

**Cleaning:** After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35°C). In order to complete the hardening and reaction shortly after the application, the areas that contacts with skin should be cleaned with water and detergent.

**Equipment Cleaning:** Immediately after application, the equipment should be cleaned with Tekno Thinner before it becomes hard.

**Pot Life:** At 20°C temperature approximately 30 minutes

**Cleaning Duration:** At 20°C temperature approximately 45 minutes

## Application Notes / Restrictions

- In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will accelerate the hardening. The pot life will also vary depending on the temperature.
- The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture contacts with eyes, eyes should be washed immediately with warm water, and consult doctor.
- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem.
- Discoloration and yellowing can be happened in the product which hardened depending on direct sunlight

## Technical Data

General Information	
Color	Clear
Density	A: 1,08 kg/l $\pm$ 0,2 B: 1,02kg/l $\pm$ 0,2
Mixture Density (A+B)	1,06 $\pm$ 0,2
Fire point	180°C
Mixture Proportion	100 gr A, 50 gr B
Pot Life	45 minutes (At +20 °C)
Full Strength	7 days
Temperature Resistance	(-20° C)-(+ 60°)
Mixture Proportion	2 Units Component A, 1 Unit Component B (By weight) 2 Units Component A, 1 Unit Component B (By volume)
Package	Set of 15 kilograms
Shelf Life	12 months in unopened original packages. Should be stored above 5°C

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20 °C temperature and 50% relative humidity rate.

# Teknobond 500

Epoxy Resin Based, Solvent-free, Self Levelling Coating



**Product Description** TEKNOBOND 500, two component, epoxy resin-based, self levelling coating.

## Areas of Usage

- Self levelling systems for the concrete and cement mortar edsurfaces exposed to normal-medium heavy load such as maintenance workshops, garages and loading ramps etc.
- Multi-storey and underground parking garage
- Sand blasting systems are recommended for wet operation field in food and beverages industries and maintenance shelters.

## Features and Benefits

- Can be filled with high level of filling.
- Good chemical and mechanical strength.
- Easy applicable. No solvent required.
- Economic
- Liquid impermeable
- Glossy finish.
- Nonskid surface can be obtained

## Application Instructions

**Surface Quality:** The surface should be dry and free from all kinds of dust, dirt, weak and loose tools, cement slurry residue and grease oil. The lower surface of concrete should be clean, strong and with sufficient compression resistance (minimum 25N/mm<sup>2</sup>) and pull-off strength at least 1.5 N/mm<sup>2</sup>.

**Surface Preparation:** The surface should be cleaned by using appropriate methods in order to provide maximum adhesion strength.

**Compound:** After the component B is added to the component A, mix for 2-3 minutes with a low speed, electrical mixer (maximum 400 revolution per minute) until a homogenous color is obtained.

## Application Notes / Restrictions

- Make sure that TEKNOBOND 500 covers a continuous, non-porous surface. If necessary, apply TEKNOBOND 300 priming coat application twice. TEKNOBOND 500 is applied with notched rowel.
- In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will accelerate the hardening. The pot life will also vary depending on the temperature.
- The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture contacts with eyes, eyes should be washed immediately with warm water, and consult doctor.
- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem.
- Discoloration and yellowing can be happened in the product which hardened depending on direct sunlight. After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35°C), bad weather conditions such as rain and freeze. In order to complete the hardening and reaction shortly after the application, the areas that contacts with skin should be cleaned with water and detergent.
- Immediately after the application, equipment should be cleaned with Tekno Thinner.

### Technical Data

<b>General Information</b>	
Chemical Structure	Epoxy based
Color	Requested RAL colors
Mixture Density	1.45 + 0.02 (gr/ml) (1:1 mixture with filling: ~ 1.84)
Shelf Life	12 months in unopened original package
Package	Set of 20 kilograms
<b>Application Information</b>	
Service Life	~30 minutes
Pot Life	40 minutes (Could be change depending on weather conditions)
Consumption	0.35 – 0.55 kg/m <sup>2</sup> (Priming Coat)
Mixture Proportion	For Resin; 8,1 Unit A : 1,9 Unit B (By weight) For Thick Application in the Systems with Fillings; 8,4 Unit A : 1,6 Unit B : 5 -10 Unit 0,1-0,3 mm Quartz Sand (by weight)
Full Strength	7 Days
<b>Performance Information</b>	
Abrasion Resistance	-60-70 mg (CS 10/1000gr/1000 revolution) (DIN 53109)
Shore D Hardness	76 (DIN 53505)
Bending Resistance (7 Days)	> 30 N/mm <sup>2</sup> (TS EN 196-1)
Compressive Resistance (7 Days)	> 55 N/mm <sup>2</sup> (TS EN 196-1)
Splice Strength to Concrete	> 4 N/mm <sup>2</sup> (Break off from the concrete) (TS EN 4624)

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20 °C temperature and 50% relative air humidity rate.

# Teknobond 500 P

## Self Levelling Polyurethane Coating



CE TS EN 1504-2

**Product Description** Hygienic, two component polyurethane based floor covering material with solvent-free, self-levelling, high elastic and mechanical strength.

**Areas of Usage**

- Factories, cold storage depot, warehouses, refrigerated vehicle bodies.
- On EPDM plate in shopping centers, workshops, air plane sheds, schools, indoor sports facilities, and hospitals, pharmaceutical industry, food sector, laboratories,
- Can be applied in parking areas and the areas with heavy forklift traffic

**Features and Benefits**

- Abrasion and friction resistant,
- Elastic structure
- Creates a joint less surface
- Easy to clean, hygienic, does not require long maintenance,
- Easy applicable,
- Solvent-free.

**Application Instructions**

Surface Quality: Weak areas of the surfaces should be cleaned sandpaper, milling cutter and sand blasting. If the surface is too bright, it should be roughened by milling cutter or sandblasting and the specific surface should be cleaned. If there is oil on the surface, it should be burned.

Surface Preparation: Cleaned surfaces should be applied an undercoat with TEKNOBOND 300. Teknobond 500 P application is made at the latest 24 hours after the priming coat application. Teknobond 500 P should be applied with trowel to obtain a smooth surface. After then, gas bubbles are removed with a spikedroller.

Compound: After the component B is added to the component A, mix for 2-3 minutes with a low-speed, electrical mixer (maximum 400 revolution per minute) until a homogenous color is obtained.

**Application Notes / Restrictions**

- Make sure that TEKNOBOND 500 P covers a continuous, non-porous surface. If necessary, apply TEKNOBOND 300 priming coat application twice. TEKNOBOND 500 P is applied with notched trowel.
- In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will accelerate the hardening. The pot life will also vary depending on the temperature.
- The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture contacts with eyes, eyes should be washed immediately with warm water, and consult doctor.
- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem. Discoloration and yellowing can be happened in the product which hardened depending on direct sunlight. After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35°C),
- bad weather conditions such as rain and freeze. In order to complete the hardening and reaction shortly after the application, the areas that contacts with skin should be cleaned with water and detergent.
- Immediately after the application, equipment should be cleaned with TeknoThinner .

### Technical Data

<b>General Information</b>	
Chemical Structure	2K Polyurethane based
Density	1,3-1,4 kg/lt (TS-EN ISO 2811-1)
Package	Set of 20 kilograms
Consumption	1.4 kg for 1mm thickness
Shelf Life	12 months in unopened original package
Pot Life	~30 minutes
<b>Application Information</b>	
Shore A Hardness (7 days / 25°C)	70-75 (ASTM D 2240) (DIN 53505)
Application Thinner	Cannot be make thin
Mixture Proportion	4 Unit Component A; 1 Unit Component B (by weight)
Mixture Life	30-40 minutes for 200 gr. (DIN 16945)
<b>Performance Information</b>	
Pull-of Strength	5 N/mm <sup>2</sup> (TS 1967)
Abrasive Strength (Taber)	150 mg (TS 8103 EN ISO 5470-1)
Dust Drying	1 hour or 2 hours (TS 4317)
Touch Drying	5-7 hours (TS 4317)
Through-Dry	7 days (TS 4317)
The Class of Reaction to Fire	Efl

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20 °C temperature and 50% relative air humidity rate.

# Teknobond 600

## Industrial Epoxy Flooring Paint



CE EN 1504-2

### Product Description

It is a two component epoxy based paint which can be applied to concrete, metal, wood, plaster and gypsum surface and is resistant to severe service conditions and chemicals. In order to obtain textured surface, Teknobond 600 TIX should be used.

### Areas of Usage

- Indoor and outdoor places,
- Constantly wet areas, the areas that chemical agents are used
- In food factories.
- In laboratories, used on the materials such as parquet, floor tile, tile, ceramic, mosaic, glass mosaic, and porcelain.
- Also suitable for walls, ceilings and floor coverings/upholstery

### Features and Benefits

- Water impermeable.
- Resistant to chemicals and bacteria
- Resistant to freeze
- Long-lasting
- Hygienic, easy to clean

### Application Instructions

Surface Quality: The surfaces should be clean, dry, strong and free from all foreign objects which may cause separation.

Surface Preparation: The roughness on the surface should be levelled, and the hollow shapes should be filled.

Compound: TEKNOBOND 600 is a two component product. The proportionally prepared components A and B which consists of hardener agent and resin, are mixed together by using a low-speed mixer. The mixing is continued until a homogenous mixture is obtained.

### Application Notes / Restrictions

- In self application, special filling is added and poured as necessary It is levelled by trowel and combed with spiked roller.
- In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will accelerate the hardening. The pot life will also vary depending on the temperatures.
- The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture comes into contact with eyes, eyes should be washed immediately with warm water and you should go to doctor.
- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem. Discoloration and yellowing can be happened in the product which hardened depending on direct sunlight. After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35°C), bad weather conditions such as rain and freeze. In order to complete the hardening and reaction shortly after the application, the areas that contacts with skin should be cleaned with water and detergent.
- Immediately after application, the equipment should be cleaned with Tekno Thinner before it becomes hard.

## Technical Data

General Information	
Chemical Structure	Epoxy Resin Based
Color	Requested RL colors
Mixture Density	1,54±0,02 (g/ml)
Shelf Life	12 months in unopened original package
Package	20 kg set
Application Information	
Consumption	0,250 - 0,300 kg/m <sup>2</sup> in one floor
Pot life	40 minutes (Can be changed depending on weather conditions)
Mixture Proportion	8,2 Unit A: 1,8 Unit B (by weight)
Pot Life	~30 minutes (20°C)
Performance Information	
Splice Strength to Concrete	> 4 N/mm <sup>2</sup> (Rupture from the concrete) (TS EN4624)
Abrasive Strength	~60-70 mg (CS10/1000/1000) (DIN53109)
Full Strength	7 Days

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20 °C temperature and 50% relative air humidity rate.

# Teknobond 600 Tix

Epoxy Resin Based, Textured Flooring Paint



## Product Description

TEKNOBOND 600 TIX is an epoxy resin based, two component, solvent-free, colored and textured surface floor covering material. TEKNOBOND 600 should be used in order to obtain plain view.

## Areas of Usage

- It is used as a colored and textured coil coating for the concrete and cement mortared surfaces exposed to normal-medium heavy load such as storage and mounting areas, maintenance workshop, garages and loading ramps, etc. Multi-storey and underground parking areas, maintenance shelters.
- Used as a final surfacing for wet operation field of beverages and food industries
- Coil coating for areas where slip resistance and easy cleaning are required.

## Features and Benefits

- Easy applicable,
- High mechanical resistance
- High abrasion resistance, allowing metal wheeled traffic on.
- There is a surface structure that does not allow the microbial growth
- Easy to clean in order to create hygienic environments.
- Textured (orange peel) and non-slip surface.

## Application Instructions

Surface Quality: The surface should be dry and free from all kinds of dust, dirt, weak and loose tools, cement slurry residue and grease oil. The lower surface of concrete should be clean, strong and with sufficient compression resistance (minimum 25N/mm<sup>2</sup>), and pull-off strength that least 1.5 N/mm<sup>2</sup>.

Surface Preparation: The surface should be cleaned by using appropriate methods in order to provide maximum adhesion strength.

Compound: After the component B is added to the component A mix for 2-3 minutes with a low speed, electrical mixer (maximum 400 revolution per minute) until a homogenous color is obtained.

## Application Notes / Restrictions

- Make sure that TEKNOBOND 600 TIX covers a continuous, non-porous surface. If necessary, apply TEKNOBOND 300 priming coat application twice.
- TEKNOBOND 600 TIX can be applied with coral roller and normal roller.
- In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will accelerate the hardening. The pot life will also vary depending on the temperatures. The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture comes into contact with eyes, eyes should be washed immediately with warm water and you should go to doctor.
- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem.
- Discoloration and yellowing can be happened in the product which hardened depending on direct sunlight.
- Immediately after the application, equipment should be cleaned with Tekno Thinner. The hardened mortar can only be leaned mechanically.

## Technical Data

General Information	
Chemical Structure	Epoxy Based
Color	Requested RL Colors
Mixture Density	1,50 ± 0,02 (gr/ml)
Shelf Life	12 months in unopened original package
Package	Set of 20 kg
Application Information	
Consumption	~0,5 kg/m <sup>2</sup>
Pot Life	40 minutes (Can be changed depending on weather conditions)
Mixture Proportion	9 Unit A : 1 Unit B (by weights)
Pot Life	~30 minutes (20°C)
Performance Information	
Splice Strength to Steel	> 3 N/mm <sup>2</sup> (TS EN 4624)
Splice Strength to Concrete	> 4 N/mm <sup>2</sup> (Rupture from the concrete) (TS EN 4624)
Full Strength	9 Days

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20 °C temperature and 50% relative air humidity rate.

# Teknobond 620

## Water Based Industrial Epoxy Flooring Paint



**Product Description** Water based epoxy floor coating material with two component, solvent-free, high mechanical abrasion resistance hygienic, can be diluted with water, water vapor permeability,

### Areas of Usage

- Indoor and outdoor areas Constantly wet areas
- The areas where chemical agents are used
- In food factories,
- In laboratories, used on the materials such as parquet, floor tile, tile, ceramic, mosaic, glass mosaic and porcelain,
- Also suitable for walls, ceilings and floor covering/upholstery

### Features and Benefits

- Waterproof
- Resistance to chemicals and bacteria.
- Resistance to freeze
- Long-lasting, the color does not fade
- Hygienic, easy to clean
- Odorless
- Humidity-tolerant, can be applied on moist surface
- Depending on application thickness, resistant to alkali, diluted acid, mineral oils, lubricants and fuel oil.
- There is a conformity report with potable water.

### Application Instructions

Surface Quality: The surface should be dry and free from all kinds of dust, dirt, weak and loose tools, cement slurry residue and grease oil.

Surface Preparation: The surface should be cleaned by using appropriate methods in order to provide maximum adhesion strength.

Compound: After the component B is added to the component A, mix for 2-3 minutes with a low speed, electrical mixer (maximum 400 revolution per minute) until a homogenous color is obtained.

### Application Notes / Restrictions

- In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will also vary depending on the temperature will accelerate the hardening. The pot life will also vary depending on the temperature.
- The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture comes into contact with eyes, eyes should be washed immediately with warm water and you should go to doctor.
- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem.
- Discoloration and yellowing can be happened in the product which hardened depending on direct sunlight.
- Immediately after the application, equipment should be cleaned with Tekno Thinner. The hardened mortar can only be cleaned mechanically.

## Technical Data

General Information	
Chemical Structure	Epoxy Based
Color	Requested RL colors
Mixture Density	1,55±0,02 (g / ml)
Shelf Life	12 months in unopened original package
Package	Set of 20 kg
Application Information	
Consumption	0,300 - 0,500 kg/m <sup>2</sup>
Full Strength	7 Days
Pot Life	~45 minutes
Performance Information	
Splice Strength to Concrete	> 4 N/mm <sup>2</sup> (Rupture from the concrete) (TS EN 4624)
Splice Strength to Steel	> 3 N/mm <sup>2</sup> (TS EN 4624)
Abrasion Resistance	~60 - 70 mg (CS10/1000/1000) (DIN53109)

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknobond 650

## Solvent Based Industrial Epoxy Paint



CE EN 1504-2

**Product Description** Epoxy paint with solvent, with two component, resistant to normal service conditions and chemicals, epoxy resin based, can be applied to concrete, metal, wood, plaster and gypsum surfaces

**Areas of Usage**

- Indoor and outdoor places, on metal surfaces
- The areas that he chemical agents are used.
- In food factories, laboratories,
- Used on the materials such as parquet, floor tile, tile, ceramic, mosaic, glass mosaic and porcelain,
- Also suitable for walls, ceilings and floor covering/upholstery.

**Features and Benefits**

- Waterproof,
- Resistant to chemicals and bacteria,
- Resistant to freeze,
- Long-lasting, the color does not fade,
- Hygienic, easy to clean.

**Application Instructions**

Surface Quality: The surfaces should be clean, dry, strong and free from all foreign objects which may cause separation.

Surface Preparation: The surfaces that TEKNOBOND 650 to be applied should be strong, clean, dry and free from all foreign objects which may cause separation. The surface should be very smooth and strong because the roughness on the surface will be reflected exactly to the paint.

Compound: TEKNOBOND 650 is a two component product. It is mixed with a low-speed drill by component B is added proportionally into the component A until a homogenous mixture is obtained.

**Application Notes / Restrictions**

- During the compound and application process, use rubber glove or goggles to protect your skin and eyes. Especially eyes should be carefully protected. If it contacts with your eyes, wash your eyes with plenty of water about 15 minutes and consult a doctor.
- Keep away from food products and children.
- If it is applied with velvet roller, fluctuation happens less.
- Two-coat paint should be applied within at least 12 and 36 hours at the latest. The product has full strength in 7 days.

## Technical Data

General Information	
Color	Grey or requested color
Package	Set of 20 kilograms
Consumption	0,500 kg/m <sup>2</sup> in one layer
Mixture Density	1,20 gr/cm <sup>3</sup>
Shelf Life	12 months in unopened original package
Application Information	
Pot Life	~60 minutes (20°C)
Application Heat	(+5°C)-(+35°C)
Walking Period	1 day
Full Strength	7 days
Temperature Resistance	(-20°C)-(+60°C)

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknobond 650 P

Polyurethane Acrylic Based, UV Resistant Paint



**Product Description** Protective finishing paint with polyurethane based, two component, high UV resistance.

**Areas of Usage**

- As a protective material, on all kinds of metal surfaces
- As a finishing paint on epoxy floor covering
- Especially in outdoor areas where UV resistance is required.

**Features and Benefits**

- Provides excellent adhesion to all surfaces such as epoxy and polyurethane surfaces, concrete, asphalt, hair, steel.
- Easy applicable. (Applicable by spraying, brush or roller) high UV resistance and thermal resistance
- Abrasion, impact and chemical resistance
- Can be applied safely on horizontal and vertical surfaces.

**Application Instructions**

Surface Quality: The surface should be dry and free from all kinds of dust, dirt, weak and loose tool, cement slurry residue and grease oil. The lower surface of concrete should be clean, strong and with sufficient compress on resistance (minimum 25N/mm<sup>2</sup>), and pull-of strength at least 1.5 N/mm<sup>2</sup>.

Surface Preparation: The surface should be cleaned by using appropriate methods in order to provide maximum adhesion strength.

Compound: After the component B is added to the component A mix for 2-3 minutes with a low speed electrical mixer (maximum 400 revolution per minute) until a homogenous color is obtained.

**Application Notes / Restrictions**

- Make sure that TEKNOBOND 650P covers a continuous, non-porous surface..If necessary, apply TEKNOBOND 300 priming coat application twice. TEKNOBOND 650 P can be applied by spraying or roller.
- In order to complete the hardening of the material, do not use it allowed minimum temperature. Low temperatures will slow down the hardening, while high temperatures will accelerate the hardening. The pot life will also vary depending on the temperature.
- The product may irritate the skin. Protective glasses or gloves should be used. Protective hand cream should be used before starting work. If the soil mixture contacts with eyes, eyes should be washed immediately with warm water, and consult doctor.
- Crystallization can be shown in the product if it is kept below 0°C for a long time. If the crystals are broken by bringing the product back to room temperature, the product can be used without any problem
- The hands should be washed with warm water and soap. Skin contract may be irritating. Eye contact should be avoided. Otherwise, consult a doctor.
- Immediately after the application, equipment should be cleaned with Tekno Thinner. The hardened equipment can only be cleaned mechanically.

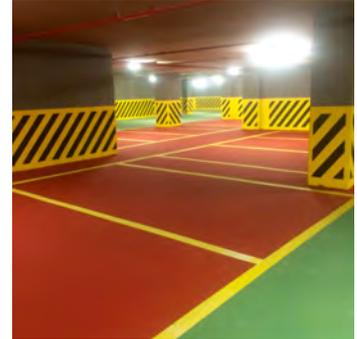
## Technical Data

General Information	
Chemical Structure	Polyurethane Acrylic with Solvent
Color	Requested RL colors
Density	1,38±0,02 (g/ml) (EN ISO2811-1)
Shelf Life	12 months in unopened original package
Package	Set of 20 kg
Application Information	
Dry Time	Opening to pedestrian traffic in 3 days, full curing in 7 days
Consumption	0,150-250 kg/m <sup>2</sup>
Pot Life	~45 minutes (20°C)
Surface Temperature	+5°C/+30°C
Thinner	TEKNOBOND 650 P Polyurethane Paint Thinner

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknobond 950

## Acrylic Road Marking Paint



**Product Description** Acrylic resin based, one componnet road marker and floor covering paint

### Areas of Usage

- Highways, main and cross urban roads,
- Airports, bridge
- Residential buildings, shopping centers
- On urban furniture such as parquet stone, curb
- It is applied on asphalt or concrete in all kinds of engineering works.

### Features and Benefits

- One-component, easy applicable
- Cold application.
- Rapid curing
- Cures rapidly in thick application
- High abrasion resistance
- High UV resistance
- The color does not change on the asphalt
- Can also be seen in the dark.

### Application Instructions

Surface Quality: The surface should be strong and cleaned from a l kinds of loose tools, and all kinds of materials that prevent to adhere. Pull-of strength at least 1.5 N/mm<sup>2</sup>

Surface Preparation: If there are cavities on the concrete and asphalt to be applied, they should berepaired. The blocks that disrupt surface smoothness, such as level by mechanical methods. protrusion, should be brought to same The paint should be mixed well before using it. Application is made in single layer. If second coat is applied, it should be waited for at least 1 hour. TEKNOBOND 950 is air-cured, no further action is needed.

### Application Notes / Restrictions

- The paint should never be drained into sewers and water tunnels.
- After partial use, the package should be tightly closed.
- It should not be applied in the rain. The product should not be distributed with water. Newly applied material shouldbeprotectedagainststtheweatherconditionsuntillitfinishestohardening.
- It is applied by brush, roller or special ruler.
- After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35°C), bad weather conditions such as rain and freeze.
- Because it is inflammable material, keep it away from light source also. Do not smoke.
- Because that hardening will be completed shortly after the application, cleaning should only be made with mechanical equipment. The hands should be washed with warm water and soap.
- Immediately after application, the equipment should be cleaned with Tekno Thinner before it becomes hard

## Technical Data

General Information	
Chemical Structure	Acrylic Resin
Color	Yellow, white, red (Requested several colors)
Package	25 kilograms-tin plate
Shelf Life	12 months in unopened original package
Density	1,65 g/ml ( $\pm$ 0,05)
Application Information	
Consumption	150+5 gr/m <sup>2</sup> in single layer
Pot Life	~ 60 minutes
Viscosity	~ 120 seconds (DIN CUP No.4 DIN53211)
Touch Dry	10 -15 minutes
Dust holding capacity	20 - 30 minutes
Through-Dry	~ 3 hours
Application Heat	(+5) - (+35)°C

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknobond 960

Road, Asphalt and Concrete Marking Paint  
Cold Application



**Product Description** Synthetic resin based, cold road line paint with solvent.

- Areas of Usage**
- Highways, main and cross urban roads,
  - Airports, bridge
  - Residential buildings, shopping centers
  - On urban furniture such as parquet stone, curb
  - It is applied on asphalt or concrete in all kinds of engineering works.

- Features and Benefits**
- Cold application
  - High covering specification
  - One component, easy applicable
  - Cures rapidly in thick application.
  - High abrasion resistance
  - High UV resistance
  - The color does not change on the asphalt.
  - Can also be seen in the dark.

**Application Instructions**

Surface Quality: The surface should be strong and cleaned from all kinds of loose tools, and all kinds of materials that prevent to adhere. Pull-of strength at least 1.5 N/mm<sup>2</sup>.

Surface Preparation: If there are cavities on the concrete and asphalt to be applied, they should be repaired. The blocks that disrupt surface smoothness, such as protrusion, should be brought to same level by mechanical methods or manually.

The paint should be mixed well before using it. Application is made in single layer. If second coat is applied, it should be waited for at least 1 hour TEKNOBOND 960 is air-cured, no further action is needed.

- Application Notes / Restrictions**
- The paint should never be drained into sewers and water tunnels.
  - After partial use the package should be tightly closed.
  - It should not be applied in the rain and should not be diluted with water. If required, it can be diluted with TEKNO Thinner at the rate of 5-8% and it can be applied with special pistol by spraying. Wait at least 15 minutes between the coats.
  - It is applied by brush, roller or mechanical spraying methods.
  - Because it is inflammable material, keep it away from lighter materials. Do not smoke.
  - Because that hardening will be completed shortly after the application, cleaning should only be made with mechanical equipment. The hands should be washed with warm water and soap.

## Technical Data

General Information	
Chemical Structure	Synthetic resin based, solvent based
Color	Yellow, white, red (Requested several colors)
Density	1,70±0,05 kg/lt
Package	25 kilograms-tin plate
Shelf Life	12 months in unopened original package
Application Information	
Consumption	150±5 gr/m <sup>2</sup> in single layer
Pot life	~ 25 minutes
Surface Drying	~15 minutes
Floor Drying (minute.) (23°C)	~ 40 minutes
Through-Dry (hour) (23°C)	~ 3,5 hours
Application Heat	(+5) - (+35)°C

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknobond 970

MMA Based, Two Component, Road Marking Paint  
Cold Application



**Product Description** It is MMA based, two component, cold applied road marking paint that can be applied both indoor and outdoor places. It is applied as pouring about 2-3 mm thickness.

**Areas of Usage**

- Highways, main and cross urban roads,
- Airports, bridges
- Residential buildings, shopping centers
- On urban furniture such as parquet stone, curb,
- It is applied on asphalt or concrete in all kinds of engineering works.
- On epoxy, polyurethane floor coverings, surface-hardened concrete floors.

**Features and Benefits**

- MMA based, the paint with cold application.
- It is produced in traffic paint colors in conformity with RAL standards.
- Thanks to rapid drying, the applied area can be opened to traffic in a short time.
- High UV radiation and other atmospheric conditions resistance
- More durable than other paint types.
- Can be easily used on the surfaces such as asphalt, concrete, floor hardener, mosaic etc.
- Especially ideal for areas with heavy loads and traffic.
- Line, arrow, pedestrian crossing, letter and number applications
- Long-lasting, very good adhesion to applied surface.
- Not affected by dirt, dust, exhaust, oil.
- Can be done easily.
- There is a thermoplastic flexible ability to work with lower surface.
- Can be easily seen in night.
- Ask for technical support for ground conditions before application.

**Application Instructions**

**Surface Quality:** The surface to be applied should be dry, clean and strong during application. Do not start the application before these conditions are provided. Do not apply on the new lower surface until the end of the solidification time is completed. (For example: 28 days on concrete surfaces). Ask for technical support before applying on asphalt surfaces.

**Surface Preparation:** If there is oil on the surface, burn it off. Use Tekno repair mortar for surface repairs.

**Compound:** Mix the material in a bucket with a low-speed mixer for about 3 minutes homogenously with an average 0.5-1.0% hardening agent and pour into the paint box of the machine and start the application. Do not mix any chemicals into the paint other than those specified in the Technical Information sheet because this affects the quality, economic life and property of the paint in a negative way. Before mixing hardening agent with paint, solve all problems that may cause difficulty in the application. After mixing it, the application time is about 25 minutes. After placing templates mix the material in a bucket with a low-speed mixer for about 3 minutes homogenously with an average 1% TEKNO HARDENER hardening agent, and immediately pour into the template. Expand it with trowel in self-levelling method. Spread spiked roller over the entire painted surface in order to help air bubbles out, before drying. Without paint drying in both applications, splatter the granulated glass over the applied paint, if required. After paint drying, remove the granulated glass which does not adhere to the paint by using broom.

## Application Notes / Restrictions

- The application area should have a good air condition.
- Please apply to technical team of our company for the arrow and letter drawing measurements.
- It is recommended to carry out sample work beforehand as the application requires experience.
- Do not apply under the sun in very hot weather. Application should be made in the evenings or mornings.
- After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35°C). Because that hardening will be completed shortly after the application, cleaning should only be made with mechanical equipment.
- The hands should be cleaned with warm water and soap.

## Technical Data

General Information	
Chemical Structure	MMA based
Color	Yellow, white, red (Requested several colors)
Density	2,10 ±0,3 gr/ml
Shelf Life	12 months in unopened original package
Package	25 kilograms-tin plate
Application Information	
Consumption	2,0+0,5 kg/m <sup>2</sup> in single layer
Pot Life	~25 minutes
Through-Dry	1 hour (20°C)
Film Thickness	2-3 mm

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknobond 980

Acrylate Based, One Component,  
Cold Applied, Road Marking Paint



**Product Description** It is one component, acrylate based, cold applied road marking paint with solvent, which can be applied both indoor and outdoor places.

- Areas of Usage**
- Highways, main and cross urban roads
  - Airports, bridges
  - Residential buildings, shopping centers
  - On urban furniture such as parquet stone, curb
  - It is applied on asphalt or concrete in all kinds of engineering works.

- Features and Benefits**
- Acrylate based paint with cold application
  - It is produced in traffic paint colors in conformity with RAL standards.
  - Thanks to rapid drying, the applied area can be opened to traffic in a short time.
  - High UV radiation and other atmospheric conditions resistance.
  - Can be easily used on the surfaces such as asphalt, concrete, fl or hardener, mosaic, etc.
  - Long-lasting, very good adhesion to applied surface.
  - Not affected by dirt, dust, exhaust, oil.
  - There is a thermoplastic flexible ability to work with lower surface.
  - Can be easily seen in night.

**Application Instructions**

Surface Quality: The surface to be applied should be dry, clean and strong during application. Do not start the application before these conditions are provided. Do not apply on the new lower surface until the end of the solidification time is completed.

Surface Preparation: If there is oil on the surface, burn it off. Use Tekno repair mortar for surface repairs.

Curing: Mix the material in a bucket with a low-speed mixer for about 3 minutes homogeneously and immediately pour it into the paint box and start the application. Do not mix any chemicals into the paint other than those specified in the Technical Information sheet. This may affect the quality, property and economic life of the paint in a negative way.

- Application Notes / Restrictions**
- Mix 5-10% TEKNO THINNER in to the paint and apply paint to the surface for the first floor with the help of roller or brush in order to use it as a mortar.
  - Wait for about 1 hour in order to dry. According to impregnate of the surface, apply the second-coat paint without thinner or with thinner at the rate of 5-10%. Wait for about 1 hour in order to dry. If the surface is not covered, apply the third coat paint without using thinner.
  - The application area should have good air condition. For night work, lightning is needed. Also, three-phase current is required for the devices of the application.
  - It is used with bristle brush, roller, spraying machines or manual.
  - After application, the product should be protected against direct sunlight, strong wind, high air temperature (above +35°C).
  - Because that hardening will be completed shortly after the application, cleaning should only be made with mechanical equipment. The hands should be washed with warm water and soap.

## Technical Data

General Information	
Chemical Structure	Acrylate Based
Color	Yellow, white, red (Requested several colors)
Density	1,70 ± 0,05 kg / lt.
Shelf Life	12 months in unopened original package
Package	25 kilograms-tin plate
Application Information	
Consumption	150±5 gr/m <sup>2</sup> in single layer
Pot life	~15 minutes (20°C)
Film Thickness	0,5-1,5 ( mm )
Through-Dry	~ 3 hours

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# CONCRETE ADMIXTURES AND COMPLEMENTARY PRODUCTS



# Teknolatem 100

## Multi-purpose Primer



**Product Description** One-component, multi-purpose, acrylic copolymer-based dispersion for priming concrete or mortar surfaces prior to mortar application.

- Areas of Usage**
- It's used as a primer before self-levelling application
  - As a primer before ceramic and tile application
  - Especially before the self-levelling TEKNOSELF applications,
  - As a primer for cement based boards, gypsum based panels and concrete panels.

- Features and Benefits**
- Effectively closes concrete surfaces in a single step, economically by preventing air bubbles in
  - Self-levelling and water loss into the surface.
  - Useful for indoor and outdoor areas and humid areas.
  - Solvent free.
  - Odorless.
  - Chlorine-free, it does not damage the reinforcement.
  - Easy to use.

**Application Instructions**

Surface should be solid, free of loose and weak parts, free from freezing, foreign materials and other pollutants such as cement grout, accumulated water, oil, grease, paraffin, coatings etc. must be removed and cleaned. The surface should be prepared by suitable mechanical preparation techniques such as high pressure water or abrasive equipment. All dust, loose and easily crumbly materials should be removed completely by brush and / or vacuum before application. Before application of TEKNOLATEX100, the surface can be damped to the saturation level of water. Mix with a low-speed mixer in a clean container, free of any antiadhesive material, or in its package for at least 3 minutes. Apply to the surface by brush, roller and spray.

- Application Notes / Restrictions**
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
  - Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.
  - The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
  - Do not add foreign substances.
  - Pretesting is recommended for different applications.

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**Technical Data**

<b>General Information</b>	
Structure	Acrylic Emulsion
Color	White
Density (kg/ltr)	1,02 (± 0,02)
Packaging	30 kg. bins
Consumption	0,100-0,200 gr/m <sup>2</sup>
Shelf Life	12 months in unopened original packaging
Pot Life	~ 30 minutes (20°C)
PH	7-9

# Teknolatem 200

## Polymer Based Concrete Primer



Public Pos. No: 04.524/15 - 04.555/03

<b>Product Description</b>	Acrylic dispersion polymer based plaster primer for sub-plaster and gypsum surfaces, horizontal and overhead applications.
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• It's used indoor, in verticals and ceilings,</li><li>• To increase the adherence of gypsum, lime and cement based plaster mortars to the exposed concrete surface ,</li><li>• As primer in ceiling plasters.</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Creates a strong and permanent bond.</li><li>• Easy to be applied.</li><li>• Prevents rapid water loss in cement and gypsum based plaster</li><li>• High water impermeability.</li></ul>
<b>Application Instructions</b>	<p>Surface should be solid, free of loose and weak parts, free from freezing, foreign materials and other pollutants such as cement grout, accumulated water, oil, grease, paraffin, coatings etc. must be removed and cleaned. The surface should be prepared by suitable mechanical preparation techniques such as high pressure water or abrasive equipment. All dust, loose and easily crumbly materials should be removed completely by brush and / or vacuum before application.</p> <p>It should be mixed in a clean container, which is free of any kind of antiadhesive substance, in a clean container or in its own packaging, in a way that it will be homogeneous by using a mixer of low speed (400-600 rpm) by putting a maximum of 6 liters of water in a 12 kg bucket of TEKNOLATEX 200. TEKNOLATEX 200 should be mixed at regular intervals while working. Apply to the surface by brush, roller and spray.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• The product may be irritating to the skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.</li><li>• Do not add foreign substances.</li><li>• Pretesting is recommended for different applications.</li><li>• It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.</li><li>• Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.</li></ul>

## Technical Data

General Information	
Color	Green, Red
Density	1,54 (± 0,05) kg/lt
Packaging	12 kg bucket
Shelf Life	12 months in unopened original packaging
Application Information	
Consumption	150-250 gr / m <sup>2</sup> depending on the surface for one coat
Temperature of the Floor of Application	(+5°C) - (+30°C)
Drying Time	45 - 60 min.
Full Drying Time	24 hours

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknolatex 300

## Polymer Based Primer Over Ceramic Tiles



Public Pos. No: 04.555/03 - 04.524/15

**Product Description** Acrylic emulsion based single component primer with high adhesion and water impermeability.

**Areas of Usage**

- On vertical, glassy surfaces or ceramics,
- Primer for bonding ceramic on ceramic,
- It is applied to increase the adherence and decrease the absorbency of the surface.

**Features and Benefits**

- Ready to use, easy and fast to apply.
- Water-based, odorless, safe to use indoors.
- High adhesion strength.
- It is applied before cement and gypsum based coatings to prevent rapid water loss in mortar.
- High moisture resistance.
- It has high water impermeability due to the special polymers it contains.

**Application Instructions**

Surface should be solid, free of loose and weak parts, free from freezing, foreign materials and other pollutants such as cement grout, accumulated water, oil, grease, paraffin, coatings etc. must be removed and cleaned. The surface should be prepared by suitable mechanical preparation techniques such as high pressure water or abrasive equipment. All dust, loose and easily crumbly materials should be removed completely by brush and / or vacuum before application. Surface should be dry.

Mix with a low-speed mixer in a clean container, free of any obstructive material, or in its package for at least 3 minutes.

It is applied to the surface by means of a brush or roller. One coat of application is made.

**Application Notes / Restrictions**

- The product may be irritating to the skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of mortar contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Do not add foreign substances.
- Pretesting is recommended for different applications.
- It cannot be used as water insulation material alone.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands should be cleaned thoroughly with water and detergent before the product is fully cured and hardened.

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**Technical Data**

<b>General Information</b>	
Structure	Acrylic Emulsion
Color	White
Density	1,40 (± 0,04) kg/lt
Packaging	3 kg bucket
Consumption	140gr/m <sup>2</sup> Single coat
Shelf Life	12 months in unopened original packaging
Pot Life	~60 minutes (20°C)
Drying Time	3-5 hours
PH	7-9

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknolatem 400

## Primer for Decorative Render



<b>Product Description</b>	Acrylic emulsion based single component, decorative coating and multi-purpose primer with high adhesion strength.
<b>Areas of Usage</b>	Before applying decorative coating in Thermal Insulation systems, it is used as primer in interior and exterior facades.
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• Ready to use,</li><li>• Easy and fast to apply.</li><li>• Water based, odorless,</li><li>• It can be used safely in outdoor and indoors.</li><li>• High adhesion strength.</li><li>• High closure capability. Hardens the application surface.</li><li>• It is applied before cement and gypsum based coatings to prevent rapid water loss in mortar.</li><li>• Facilitates patterning during decorative coating application.</li><li>• It has high water impermeability due to the special polymers it contains.</li></ul>
<b>Application Instructions</b>	<p>Surface Quality: Surface should be solid, free of loose and weak parts, free from freezing, foreign materials and other pollutants such as cement grout, accumulated water, oil, grease, paraffin, coatings etc. must be removed and cleaned</p> <p>Surface Preparation: The surface should be prepared by suitable mechanical preparation techniques such as high pressure water or abrasive equipment. All dust, loose and easily crumbly materials should be removed completely by brush and / or vacuum before application. Surface should be dry.</p> <p>Mixing: Mix with a low-speed mixer in a clean container, free of any obstructive material, or in its package for at least 3 minutes..</p> <p>Apply to the surface by brush, roller and spray.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands should be cleaned thoroughly with water and detergent before the product is fully cured and hardened.</li><li>• The product may be irritating to the skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.</li><li>• Do not add foreign substances.</li><li>• Pretesting is recommended for different applications.</li><li>• Care must be taken to ensure that the application surface is cured..</li><li>• Immediately after application, before hardened, the equipment should be cleaned with water.</li></ul>

## Technical Data

General Information	
Structure	Acrylic Emulsion
Color	White
Density	1,53 (± 0,03) kg/ltr
Shelf Life	12 months in unopened original packaging
Packaging	25 kg bucket
Application Information	
Consumption	0,200-0,400 gr/m <sup>2</sup>
Pot Life	~60 minutes (20° C)
Drying Time	1 -3 hours
PH	7-9

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknolatem 500

Adhesion Promoter and Waterproofing Admixture



CE EN 934-5

Public Pos. No: 04.613/1-I

**Product Description** Acrylic dispersion based, adherence enhancing primer and self levelling, plaster and concrete admixture for waterproofing

## Areas of Usage

- It's used as an adherence additive in mortars prepared for the repair of damaged concrete surfaces, self levelling and plaster,
- As a primer under self levelling
- As an additive to increase the water impermeability of reinforced concrete silos, water reservoirs, pools, inner and outer mortars of treatment plants,
- To prevent dusting and cracking in screeds Self – levelling
- To increase adherence before application of plaster and ceramics on smooth concrete surfaces and for the preparation of rough rendering.
- To provide new concrete adherence with old concrete.
- In engineering structures such as subways, highways, tunnels, dams,

## Features and Benefits

- It reduces surface absorbency when applied to absorbent surfaces.
- It provides excellent adherence and elasticity.
- It provides high resistance to oil and salt solutions.
- It dries crack-free and is resistant to abrasion.
- It does not cause corrosion and soaping.
- It increases the chlorine impermeability.
- It provides water impermeability.

## Application Instructions

To increase the adherence and water impermeability in concrete:  
The mixing properties of a concrete sample decided to be cast on the construction site are as follows.

Concrete Class	C 25
Maximum Grain Diameter	22 mm
Water	181 kg
Cement (CEM I 42,5 R)	370 kg
Water / Concrete (W / C) Ratio	0,49
Crushed Sand (0-5 mm)	454 kg
Stone Dust	335 kg
Aggregate (5-12 mm)	468 kg
Aggregate (12-22 mm)	454 kg
Super Plasticiser	3,7 kg
Air content	%1,5
Slump	16 cm
<b>Determination of the amount of TEKNOLATEX 500 to be used</b>	
Determination according to the water in the concrete (TEKNOLATEX 500: Water -1: 1 to 1: 4) 1: 4 is used in the sample.	45,25 kg

TEKNOLATEX 500 is used from 1: 1 to 1: 4 of the water used in concrete. It is poured into the truck mixer arriving into the building site. The concrete mixer is stirred for 5 minutes at high speed. The concrete is placed in the mold. Concrete prepared with TEKNOLATEX 500 is recommended to be used in very special works. It minimizes the chlorine and water impermeability.

To increase the adherence and water impermeability in screed:

At the building site, 50 kg of cement for 150 kg of sand is prepared as a dry mixture. TEKNOLATEX 500 is poured into a clean barrel in 30 kg bins. Then 4 bottles of water are poured into the barrel. Depending on the humidity in the sand, the TEKNOLATEX 500: Water ratio can be changed from 1: 1 to 1: 4. The barrel is mixed homogeneously. The prepared dry mortar is opened by mixing with TEKNOLATEX 500 and water mixed liquid form. It is recommended to use TEKNOFLOW SUPER together by hand or mortar machines to increase the flow while screeding.

To increase the adherence of the old concrete to the new concrete or to use it as a base coat before the plaster:

It is used to prevent cold joint formation on new concrete or screed applications on old concrete and to increase adherence.

A: 1 kg of cement and 3 kg (0 - 3 mm) washed stream sand is mixed.

B: 1 kg of Teknolates 500 is mixed with 2 kg of water.

Mixtures A and B are mixed so as to have boza consistency. The prepared mixture is applied on the surface soaked with a brush for 12 hours beforehand to a thickness of 2 mm. Plaster, screed, concrete are added into mortar within 20 minutes before it dries.

If it is to be used as rough before plastering; prepared mortar is sprinkled rapidly on concrete surface with trowel. Rough or fine plaster is applied next day after the rough rendering is dried.

To increase the water impermeability in the plaster:

At the building site, 50 kg of cement for 150 kg of sand is prepared as a dry mixture. TEKNOLATEX 500 is poured into a clean barrel from 30 kg bins. Then 4 bottles of water are poured into the barrel. Depending on the humidity in the sand, the TEKNOLATEX 500: Water ratio can be changed from 1:1 to 1: 4. The barrel is mixed homogeneously. The prepared dry mortar is opened by mixing with TEKNOLATEX 500 and water mixed liquid form. Then the application is started with trowel. It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35 °C), rain and frost. Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

## Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and suitable glasses and mask should be used.
- TEKNOLATEX 500 can be used together with cement and sand, or it can be used on absorbent concrete like mineral surfaces alone or diluted with water.
- Filled primers such as TEKNOLATEX 300 should be preferred on very bright surfaces such as ceramic surfaces

## Technical Data

General Information	
Chemical Structure	Acrylic Emulsion
Color	White Liquid
Density (kg/ltr)	1,02 (±0,03)
Packaging	30 kg bucket
Shelf Life	12 months in unopened original packaging
Pot Life	~ 60 minutes (20°C)
Drying Time (min.)	135
PH	7-9

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoantifriz %20

## Cold Weather Antifreeze Concrete Admixture



ASTM C 494-81 Tip C

Public Pos. No: 04.613/7

### Product Description

Chlorine-free plaster, self levelling and concrete admixture which provides high quality concrete casting by set accelerating in low temperature weather conditions.

### Areas of Usage

- It's used in all kinds of concrete and mortar works in cold weather conditions,
- Where concrete and mortar are wanted to be set,
- In cases where light frost effects continue throughout the day,
- In cases of frost expectation during the night.

### Features and Benefits

- As a result of reactions of cement in fresh concrete, it accelerates the initial formation of aluminat and silicate gels.
- It accelerates the hydration of fresh concrete and enables fast concrete to harden and gain strength. Therefore it helps to cast concrete in cold weather conditions.
- Antifreeze shortens the hardening period of cement like other alkali additives, increases the strength of concrete in first hours and days.
- Since it doesn't contain chlorine, it has no corrosion affect on the reinforcement.
- Thanks to a fast setting, it saves time in places where it is thought to take mould early and also provides savings because it reduces the application temperature and duration.
- Increases the resistance against frost and increase the strength of concrete.
- Allows to overcome the limit of concrete strength (4-5 N/mm<sup>2</sup>) required for frost resistance and shortens this period.

### Application Instructions

Surface Preparation: It should be preferred when screed, plaster or concrete is to be cast where the ambient temperature is highest. Noon hours are the best time to do this application. Additional precautions are necessary to be taken in advance to protect the surface from frost, rain, dew and rime.

TEKNOANTIFRIZ %20 is used by adding to the product mixture water in concrete or to low-mix fresh concrete by mixing directly. When added directly to fresh concrete, the mixing duration is increased by 3 minutes at high speed to ensure homogeneity. Before concrete is emptied, it should be visually checked that it has a homogeneous consistency.

In the production of screeds or plaster, 50 kg of cement for about 150 kg of sand is prepared as a dry mixture. For 50 kg of cement, 1 kg of TEKNOANTIFRIZ %20 will be sufficient to be used. (2% of binder) TEKNOANTIFRIZ %20 is added to approximately 5 kg of clear water and the dry mixture is opened with this water. The screed is added to fresh, clear water until it reaches the consistency of the desired workability.

It is recommended to use TEKNOFLOW SUPER together by hand or mortar machines to increase the flow while screeding.

### Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn. Suitable glasses and mask should be used.
- The mold and reinforcement must be protected against water, snow and ice, and if necessary, must be brought to a minimum 0°C with preheating.

- If possible, wooden molds must be used instead of steel molds.
- Cements with high clinker ratio should be preferred instead of using blended cement.
- Molds should be insulated against temperature losses.
- The fresh concrete temperature should be at least 5-15°C depending on the ambient temperature and the thickness of the concrete casting.
- The loss of temperature and moisture should be avoided by covering or isolating the concrete and the concrete must be protected very tightly until reaching the strength limit of 4-5 N/mm<sup>2</sup>
- If TEKNOANTIFRIZ %20 is frozen in barrel, it should be thawed and mixed in a place with high ambient temperature. It should not be contacted directly with fire. At the end of thaw, the product features do not change.
- In using TEKNOANTIFRIZ %20, local materials should be tried and appropriate mix of concrete should be taken into consideration
- TEKNOANTIFRIZ %20 should not be added to dry cement.
- TEKNOANTIFRIZ %20 should be added with mixture water or added at the end of the mixing process
- Before use, conformity tests should be performed.
- Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

## Technical Data

General Information	
Chemical Structure	Inorganic Salt
Color	Clear Liquid
Density	1,15 (± 0,05) kg/l
Packaging	35 kg bins
Consumption	1 - 3 % of the weight of the cement.
Shelf Life	12 months in unopened original packaging
Solids (%)	20 (± 2,00)
PH	6-10
Chloride Amount	< 0.1 % Chlorine free

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoantifriz %40

ASTM C 494-81 Type C  
Cold Weather Antifreeze Concrete Admixture



Public Pos. No: 04.613/7

## Product Description

Chlorine-free plaster, self levelling and concrete admixture which provides high quality concrete casting by set accelerating in low temperature weather conditions.

## Areas of Usage

- In all kinds of concrete and mortar works in cold weather conditions,
- Where concrete and mortar are wanted to be set,
- It's used in cases where light frost effects continue throughout the day
- In cases of frost expectation during the night.

## Features and Benefits

- As a result of reactions of cement in fresh concrete, it accelerates the initial formation of aluminate and silicate gels.
- It accelerates the hydration of fresh concrete and enables fast concrete to harden and gain strength.
- Therefore it helps to cast concrete in cold weather conditions.
- Antifreeze shortens the hardening period of cement like other alkali additives, increases the strength of concrete in first hours and days.
- Since it doesn't contain chlorine, it has no corrosion affect on the reinforcement.
- Thanks to a fast setting, it saves time in places where it is thought to take mould early and also provides savings because it reduces the application temperature and duration.
- Increases the resistance against frost and increase the strength of concrete.
- Allows to overcome the limit of concrete strength (4-5 N / mm<sup>2</sup>) required for frost resistance and shortens this period.

## Application Instructions

Surface Preparation: It should be preferred when screed, plaster or concrete is to be cast where the ambient temperature is highest. Noon hours are the best time to do this application. Additional precautions are necessary to be taken in advance to protect the surface from frost, rain, dew and rime. TEKNOANTIFRIZ %40 is used by adding to the product mixture water in concrete or to low-mix fresh concrete by mixing directly. When added directly to fresh concrete, the mixing duration is increased by 3 minutes at high speed to ensure homogeneity. Before concrete is emptied, it should be visually checked that it has a homogeneous consistency.

In the production of screeds or plaster, 50 kg of cement for about 150 kg of sand is prepared as a dry mixture. For 50 kg of cement, 1 kg of TEKNOANTIFRIZ %40 will be sufficient to be used. (2% of binder) TEKNOANTIFRIZ %40 is added to approximately 5 kg of clear water and the dry mixture is opened with this water. The screed is added to fresh, clear water until it reaches the consistency of the desired workability.

It is recommended to use TEKNOFLOW SUPER together by hand or mortar machines to increase the flow while screeding.

## Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn. Suitable glasses and mask should be used.
- The mold and reinforcement must be protected against water, snow and ice, and if necessary, must be brought to a minimum 0°C with preheating.
- If possible, wooden molds must be used instead of steel molds.
- Cements with high clinker ratio should be preferred instead of using blended cement.
- Molds should be insulated against temperature losses.
- The fresh concrete temperature should be at least 5-15°C depending on the ambient temperature and the thickness of the concrete casting.
- The loss of temperature and moisture should be avoided by covering or isolating the concrete and the concrete must be protected very tightly until reaching the strength limit of 4-5 N/mm<sup>2</sup>
- If TEKNOANTIFRIZ %40 is frozen in barrel, it should be thawed and mixed in a place with high ambient temperature. It should not be contacted directly with fire. At the end of thaw, the product features do not change.
- In using TEKNOANTIFRIZ %40, local materials should be tried and appropriate mix of concrete should be taken into consideration
- TEKNOANTIFRIZ %40 should not be added to dry cement.
- TEKNOANTIFRIZ %40 should be added with mixture water or added at the end of the mixing process,
- Before use, conformity tests should be performed.
- Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

## Technical Data

General Information	
Chemical Structure	Inorganic Salt
Color	Clear Liquid
Density	1,4 (± 0,05) kg/lit
Packaging	35 kg bin
Consumption	1 - 2% of the weight of the cement.
Shelf Life	12 months in unopened original packaging
Solids (%)	40 (± 2,00)
PH	6-10
Chloride Amount	< 0.1% Chlorine free

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknofiber P.P.

## Chopped Polypropylene Fiber for Concrete and Mortars



Public Pos. No: 04.279/3G

**Product Description** Fibers made of polypropylene, used to increase durability in concrete, resistant to chemicals and high temperature, having hydrophobic property, compatible with all types of cement, minimizing shrinkage cracks in concrete.

**Areas of Usage**

- It's used in prefabricated concrete,
- Ready-mixed concrete,
- Ready-mixed plaster, screed and mortars,
- In gunite works,
- In heat resistant plaster plates,
- In engineering structures such as tunnels, highways, dams,
- In site and industrial concrete.

**Features and Benefits**

- It reduces plastic and shrinkage cracks.
- It increases the resistance to abrasion, fracture and breakage.
- It increases buckling strength and fatigue resistance.
- It minimizes the concrete damages caused by freeze-thaw in the UV open field concrete.
- It reduces rebound rate in shotcrete applications.
- Easy to use, low cost, no additional labor required.
- It has a water-soluble packaging.

**Application Instructions** TEKNOFIBER is added in plaster, screed, concrete in production plants or construction sites. If the distance between the ready-mixed concrete production plant and the construction site is more than 1 hour, the product is put in the concrete mixer in the construction site. 1 bag (600 gr / m<sup>2</sup>) is put into 1 m<sup>3</sup> concrete. The mixer is stirred at low speed for at least 5 minutes. The concrete is placed in the mold.

**Application Notes / Restrictions**

- Sudden water loss may occur after adding TEKNOFIBER into concrete. For this reason, the concrete should be replaced as soon as possible in order not to lose its slump.
- TEKNOFIBER is suitable for use in terrestrial regions where the temperature difference between night and day is very high. However, there is no positive or negative effect on flexural strength, flexibility of concrete.
- It is not used for steel reinforcement. Static calculations should be made of iron reinforcements and joints should be cut.
- There is no positive or negative effect of TEKNOFIBER on compressive strengths of 3, 7 and 28 days.
- Immediately after application, before hardened, the areas of contact with the skin and hands should be cleaned with water. The used equipment should be cleaned as soon as possible. After use, the hardened mortar and concrete can only be cleaned by mechanical methods.

## Technical Data

General Information	
Purity	100% polypropylene
Appearance	Natural White
Packaging	Teknofiber-F (Fibrize) 900 gr Teknofiber-M (Multiflament) 600 gr
Consumption	1 bag (600 gr/m <sup>2</sup> ) of product is put into 1 m <sup>3</sup> screed, plaster or concrete.
Shelf Life	Minimum 2 years in unopened original packaging.
Section	Circular
Standard	ASTM-C1 1 16
Fiber Length	6,12, 19 mm
Tensile Strength	350 N/mm <sup>2</sup>
Specific Density	0,91 kg/lt
Softening Point	140°C
Melting Point	165-170°C
Acid Effect	Resistant
Oxidation Resistance	Very good
Organic Solvent Effect	Resistant
Cement Compatibility	Very good
Alkali Effect	Resistant A
UV Resistance	Yes
Abrasion Resistance	Very good
Moisture Holding	0

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknofiber Glass

## Chopped Glass Fiber for Concrete and Mortars



Public Pos. No: 04.279/3G

**Product Description** Glass fibers compatible with all types of cement, minimizing shrinkage cracks in plaster, screed or concrete.

**Areas of Usage**

- It's used in mill-mixed plaster, screed and mortars,
- In gunite works,
- In heat resistant plaster plates,
- In site and industrial concrete.

**Features and Benefits**

- It reduces plastic and shrinkage cracks.
- It increases the resistance to abrasion, fracture and breakage.
- It minimizes the concrete damages caused by freeze-dissolution in the UV open field concrete.
- It reduces rebound rate in shotcrete applications.
- Easy to use, low cost, no additional labor required.
- It has a water-soluble packaging.

**Application Instructions**

TEKNOFIBER GLASS is added in plaster, screed, concrete in production plants or construction sites. If the distance between the ready-mixed concrete production plant and the construction site is more than 1 hour, the product is put in the concrete mixer in the construction site. 1 bag (600 gr / m<sup>2</sup>) is put into 1 m<sup>3</sup> concrete. The mixer is stirred at low speed for at least 5 minutes. The concrete is placed in the mold.

Cleaning: Immediately after application, before hardened, the areas of contact with the skin and hands should be cleaned with water. The used equipment should be cleaned as soon as possible. After use, the hardened mortar and concrete can only be cleaned by mechanical methods.

**Application Notes / Restrictions**

- TEKNOFIBER GLASS is suitable for use in terrestrial regions where the temperature difference between night and day is very high.
- However, there is no positive or negative effect on flexural strength, flexibility of concrete.
- It is not used for steel reinforcement. Static calculations should be made of iron reinforcements and joints should be cut.
- There is no positive or negative effect of TEKNOFIBER GLASS on compressive strengths of 3, 7 and 28 days.

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**Technical Data**

<b>General Information</b>	
Color	White
Density	2,54 kg/lt
Packaging	40 kg parcel (600 gr Bag)
Consumption	1 bag (600 gr / m <sup>2</sup> ) of product is put into 1 m <sup>3</sup> screed, plaster or concrete.
Shelf Life	Minimum 2 years in unopened original packaging.
Modulus of Elasticity	77.000 N/mm <sup>2</sup>

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

## Tekno AD

### Cement Based Corrosion Inhibitor and Adhesion Promoter



#### Product Description

It's a cement based special mortar which increases the adherence between old concrete and new concrete, containing corrosion inhibitor and silica fume to protect the reinforcement against corrosion.

#### Areas of Usage

- It's used in engineering structures such as subways, highways, tunnels, dams,
- In repair and strengthening works,
- In order to prevent corrosion of UV exposed iron or ironstone which are likely to wait for a long time,
- In order to increase the adherence of structural repair mortar in concrete repair,
- In water ponds and all concrete applications.

#### Features and Benefits

- Excellent adhesion to reinforcement and concrete
- It has good water impermeability.
- It protects the reinforcement against moisture.
- It has high early and final hardness feature.
- High mechanical strength.
- It is not toxic.
- Easy to apply.
- It has single component, is used only by mixing with water

#### Application Instructions

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts should be removed.

Surface Preparation: Concrete floor should be damp but there should be no water accumulation.

Mixing: 3.5 - 4.0 lt clean, clear water received from normal ambient temperature into a clean container which is free from all kinds of materials which prevent adhesion. TEKNO AD in 20 kg bag as powder is poured into a container filled with water. The product is mixed with a low speed mixer until a homogeneous mixture without lumps is obtained. Mixing time should be at least 5 minutes, the mortar obtained at the end of the process should be rested for 3 minutes and mixed again until it becomes homogenous for 2 minutes. After mixing, it is applied to the pre-cleaned and moistened surface by brush, roller or spray. Intermittent mixing is recommended during application to avoid condensation in the material. After applying TEKNO AD, concrete must be cast within a short time (as wet on wet) or repair mortar must be applied. Application Notes/Restrictions When used to protect reinforcement against corrosion, the first layer is applied to the cleaned reinforcement in a thickness of 1 mm by means of a medium hard brush, roller or spray, the second layer is applied in a similar thickness after about 4-5 hours (for 20°C).

#### Application Notes / Restrictions

- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work.
- In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Do not add foreign substances.

- If 4 hours last after treatment on the prepared TEKNO AD, the mixture should be prepared and applied again.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- Immediately after application, before hardened, the equipment should be cleaned with water. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information	
Appearance	Grey, lumpless powder
Shelf Life	20 kg kraft bag
Packaging	6 months in unopened original packaging
Application Information	
Consumption - As adherence mortar:	1.6-2 kg/m <sup>2</sup> powder material is required.
Consumption - To protect reinforcement against corrosion	~ 2 kg/m <sup>2</sup> powder material is required for 1 coat. (It is applied at least in two coats)
Pot Life	60 - 90 min.
Grain Size	D <sub>max</sub> :1 mm
Dust Density	~1,2 kg/lt
Mortar Density	~2,0 kg/lt
Performance Information	
Pressure Resistance	≥ 65,0 N/mm <sup>2</sup> (TS EN 196-1)
Flexural Strength	≥ 8,0 N/mm <sup>2</sup> (TS EN 196-1)
Bond Strength	≥ 2,0 N/mm <sup>2</sup>

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknobond AD

Epoxy Bonding Agent for Old and New Concrete



CE EN 1504-2

<b>Product Description</b>	Primer, which is epoxy based, two component, solvent free, flowable consistency, applied by brush or pouring, used to bond different materials each other or used in the adherence of old concrete to new concrete.
<b>Areas of Usage</b>	<ul style="list-style-type: none"><li>• It's used as an adhesive for horizontal surfaces in the planting of ores or in the anchoring and assembly of reinforcement.</li><li>• Before the application of repair mortars, to protect the reinforcement against corrosion,</li><li>• To adhere such as concrete, stone, metal,</li><li>• To provide the adherence of old concrete to new concrete,</li></ul>
<b>Features and Benefits</b>	<ul style="list-style-type: none"><li>• It protects reinforcements against corrosion by barrier effect.</li><li>• It provides very good adherence even on moist surfaces.</li><li>• It can be easily applied with both brush and pouring.</li><li>• It provides excellent adherence between old and new concrete.</li><li>• The tensile strength and adhesion strength values obtained after application are higher than the tensile strength of concrete.</li></ul>
<b>Application Instructions</b>	<p>The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts should be removed.</p> <p>Steel surfaces must be sandblasted to be removed from dust. The sides of the fractured surface should be cut as perpendicular as possible, the rust on the reinforcement should be cleaned, and new reinforcement should be added if necessary. In case of water flow on the surface, it must be drained or closed with a suitable plug.</p> <p>Mixing: TEKNOBOND AD A component is added on the TEKNOBOND AD A component in a clean container which is free from all kinds of substances which prevent adhesion. The product is mixed with a low speed mixer until a homogeneous mixture is obtained. Care should be taken not to leave unmixed material on the edges of the packaging and on the bottom of the packaging, and the duration of the mixing should be at least 5 minutes. After mixing, TEKNOBOND AD is applied to the pre-cleaned and moistened surface by brush or roller. After TEKNOBOND AD is applied, new concrete should be poured or repair mortar should be applied between 5-30 minutes depending on the weather temperature.</p>
<b>Application Notes / Restrictions</b>	<ul style="list-style-type: none"><li>• The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.</li><li>• The operating and reaction times of resin based systems are affected by ambient and substrate temperature and relative humidity in the air. At low temperatures, the chemical reaction slows down, extending the duration of use and the working time. Higher temperatures accelerate the chemical reaction and the above times are shortened accordingly. In order for the material to complete its cure, the ambient and surface temperature must not fall below the minimum allowable temperature.</li><li>• If it takes more than 2 hours to process the prepared TEKNOBOND AD, the mixture should be prepared and applied again.</li></ul>

- Defects in the hardened product exposed to prolonged exposure to direct sunlight (UV) may cause yellowing.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +30°C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.
- During the application, no solvent should not be added in the mixture.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNOTHINNER. After the product is hardened, it should be cleaned by mechanical methods.

## Technical Data

General Information		
Color of Mixture	Grey	
Packaging	5 kg set	
Density of Mixture	1,55 + 0,05 kg/lt	
Shelf Life	12 months in unopened original packaging	
Application Information		
Pot Life	~45 min. (+20°C)	
Application Temperature	(+5°C)-(+30°C)	
Consumption	~ 1,6 kg/m <sup>2</sup> for 1 mm thickness	
Mixture Ratio	A:B=80/20	
Performance Information		
Pressure Resistance (TS EN 196)	3 days : > 40 N/mm <sup>2</sup>	7 days : > 60 N/mm <sup>2</sup>
Bending Strength (TS EN 196)	3 days : > 20 N/mm <sup>2</sup>	7 days : > 30 N/mm <sup>2</sup>
Bond Strength (7 days TS EN 196)	To concrete: > 3,0 N/mm <sup>2</sup>	To steel : > 3,5 N/mm <sup>2</sup>
Heat Strength After Hardening	(-20°C)-(+ 60°C)	
Full Curing	7 days	
Mixture Ratio	4 Units of A component, 1 Unit of B component (mass ratio)	

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknoflow Super

## Super Plasticizer Concrete Admixture



Public Pos. No: 04.613/1A3

**Product Description** Naphthalene sulphonate based, super plasticizer, liquid additive material that reduces the mixing water and increases the fluidity of gypsum and cement based materials. It conforms to the specifications given in TS EN 934-2 Tables 3.1 and 3.2.

- Areas of Usage**
- It's used in houses, shopping malls, hospitals,
  - In engineering structures such as subways, highways, tunnels, dams,
  - For places where early mold is required,
  - In order not to leave a gap in frequently reinforced concrete,
  - To reduce water permeability in foundation concrete,
  - To ensure easy spreading on floor screeds.

- Features and Benefits**
- It increases the workability of the mixture and prevents formation of gaps.
  - It reduces the amount of water in the mixture thus increasing its strength and durability.
  - It is used in products which gives high strength at low temperatures.
  - It provides slippery into screed, plaster and concrete to increase fluidity.
  - It provides concrete casting in cold climatic conditions.

**Application Instructions** Surface Preparation: When the ambient temperature is +5°C - +35°C, in areas where screed or concrete to be cast, it should be preferred.  
TEKNOFLOW SUPER with 0.5 - 2% of binder weight is mixed in the concrete mixture water. After a homogenous mixture is obtained, it's put in the concrete mold.

- Application Notes / Restrictions**
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn.
  - It is recommended to use CEM I cement to obtain early high strength.
  - In the case of concrete casting in low temperatures below +5°C, the measures recommended in the standard are required. Protective measures against frost must be taken.
  - Mixed water of plaster, screed or concrete should be reduced by about 10%.
  - Casting pretesting concrete is recommended.
  - In case of using additives on the given consumption, the hardening of the concrete will last longer.
  - At temperatures below +5°C; Noon hours are the best time. Additional precautions are necessary to be taken in advance to protect the surface from frost, rain, dew and rime.
  - At temperatures above +35°C; cool morning and evening hours are the best time. Precautions should be taken such as wetting the mold with water, moisturizing the surface and using rested cement in order to reduce the hydration temperature of the concrete, screed or plaster.
  - It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

## Technical Data

General Information	
Color	Brown Liquid
Density	1,20 - 1,22 kg/lt
Liquid Consumption	0,5% - 2% of binder weight
Packaging	30 kg. bin or 210 kg. barrel
Shelf Life	12 months in unopened original packaging
Chlorine content	< 0,1%
Alkali Content	< 10%
Concrete Setting Time	Max. 24 hours
Bonding to Concrete	> 2 N/mm <sup>2</sup> (7 Days)

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at +20°C temperature and 50% relative air humidity rate.

# Teknoflow Hiper

## Hyper Plasticizer Concrete Admixture



Public Pos. No: 04.613/1A3

### Product Description

Modified polycarboxylic ether based, superplasticizing concrete additive which gives early high strength without adversely affecting final strength of concrete. It conforms to the specifications given in TS EN 934-2 Tables 3.1 and 3.2.

### Areas of Usage

- It's used in houses, shopping malls, hospitals,
- In engineering structures such as subways, highways, tunnels, dams,
- In ready mixed concrete production,
- In the production of high performance concrete,
- Early gloss and surface smoothing can be done without loss of cohesion in concrete under cold weather conditions,
- Since it does not contain chlorine, it can be used in reinforced concrete structures and pre-stressed elements,
- It is used in the production of prefabricated concrete which requires very high early strength such as 8-24 hours.

### Features and Benefits

- It provides better cement distribution in concrete, so it provides plastic consistency without loss of cohesion.
- TEKNOFLOW HIPER can reduce the water / cement ratio by more than 10% and increase the early strengths by 50% compared to the normal superplasticizer mixed concrete depending on the dosage.
- Especially under cold weather conditions, when higher early strengths are required, TEKNOANTIFRIZ can be added to concrete.
- The lowest water / cement ratio results in a high quality concrete that sets itself up.
- It reduces water need in concrete (25 - 40%).
- It maintains the consistency of the concrete without delaying the setting.
- Non-dispersible, homogenous concrete is obtained.
- Addition of concrete makes it easier to pump concrete to long distances and high places.
- It provides good spreading of the concrete into the mold without the need for vibration,
- It provides excellent surface appearance.
- High early and final strength in concrete are obtained.

### Application Instructions

Surface Preparation: When the ambient temperature is +5°C - +35°C, in areas where screed or concrete to be cast, it should be preferred.

At temperatures below +5°C; Noon hours are the best time. Additional precautions are necessary to be taken in advance to protect the surface from frost, rain, dew and rime.

At temperatures above +35°C; cool morning and evening hours are the best time. Precautions should be taken such as wetting the mold with water, moisturizing the surface and using rested cement in order to reduce the hydration temperature of the concrete, screed or plaster.

## Application Notes / Restrictions

- TEKNOFLOW HIPER is mixed with the concrete mixture water at the rate of 0,6% -3% of the weight of binder used (0,60-3,00 kg for 100 kg cement). After a homogenous mixture is obtained, it's put in the concrete mold.
- During the application of the product, work clothes suitable for occupational health and safety rules should be worn and suitable glasses and mask should be used.
- It is recommended to use CEM I cement to obtain early high strength.
- In the case of concrete casting in low temperatures below +5°C, the measures recommended in the standard are required. Protective measures against frost must be taken.
- Mixed water of plaster, screed or concrete should be reduced by about 10%.
- Casting pretesting concrete is recommended.
- In case of using additives on the given consumption, the hardening of the concrete will last longer.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

## Technical Data

General Information		
Chemical Structure	Modified polycarboxylic ether	
Color	Brown Homogeneous Fluid	
Consumption	0.6% - 3% of binder weight	
Packaging	30 kg bin or 210 kg barrel	
Shelf Life	12 months in unopened original packaging	
Density	1,20 ±0,02 kg/lit	
pH	4 - 7	
Freeze Point	< -15°C	
Chloride Amount	< 0.1% (chlorine free)	TS EN 480-10 - TS EN 934-2
Alkali Amount	< 10% (Na <sub>2</sub> O)	TS EN 480-12 - TS EN 934-2

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknoil

## Release Agent for Wooden and Steel Molds



Public Pos. No: 04.116/2

**Product Description** It is a mineral oil based mold release which is used for the easy removal of wooden molds before concrete casting and for obtaining smooth surface concrete.

- Areas of Usage**
- It's used especially in smooth molds with low absorbency or absorptive molds,
  - In steel, plywood and wooden molds,
  - When it is desired to increase mold productivity,
  - In accelerating the mold workmanship.

- Features and Benefits**
- The lowest water / cement ratio results in a high quality concrete that sets itself up.
  - It doesn't damage concrete and molds.
  - It doesn't cause deterioration on the surfaces, dust on molds.
  - It is not affected by cold and heat.
  - It can be applied by brush and spray.
  - It does not leave waste and color in mold and concrete.
  - It helps to protect the concrete as well as to help extend the life of the mold.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts should be removed. Surface should be dry.

Surface Preparation: If there are binding wires, cement bag paper, wood parts, etc., they must be cleaned. There should be no water accumulation on the surface. Before the iron covering, masonry should be preferred and it should be ready for use on the construction site.

Mixing: Mix with a low-speed mixer in a clean container, free of any obstructive material, or in its package for a short time. Application can be done by roller, brush, spray. TEKNOIL should be applied in a thin layer, homogeneously. No oil ponding should occur on the mold. The oil ponds should be removed with sponge, cloth, etc.

Cleaning: It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The areas of contact with the skin and hands should be cleaned with water.

- Application Notes / Restrictions**
- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
  - Do not add foreign substances.
  - Pretesting is recommended for different applications.

## Technical Data

General Information	
Color	Oil Yellow, Bright liquid
Density	0,90 (± 0,03) kg/lit
Consumption	35-45 gr/m for absorbent surfaces <sup>2</sup> 15-25 gr/m for non-absorbent surfaces <sup>2</sup>
Packaging	30 lt bucket or 210 lt barrel
Shelf Life	24 months in unopened original packaging
Structure	Mineral Oil Based
Flash Point	> 95°C
Kinematic Viscosity	13,7 cSt 40°C
Refractive Index	1.4855
Acidity Value	13 mg KOH/gr

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoil Pro

## Release Agent for Wooden and Steel Molds



Public Pos. No: 04.116/2

**Product Description** It is a mineral oil based mold release which is used for the easy removal of wooden molds before concrete casting and for obtaining smooth surface concrete.

- Areas of Usage**
- It's used especially in smooth molds with low absorbency or absorptive molds,
  - In steel, plywood and wooden molds,
  - When it is desired to increase mold productivity,
  - In accelerating the mold workmanship.
  - It is applied on asphalt or concrete in all kinds of engineering works.

- Features and Benefits**
- The lowest water / cement ratio results in a high quality concrete that sets itself up.
  - It doesn't damage concrete and molds.
  - It doesn't cause deterioration on the surfaces, dust on molds.
  - It is not affected by cold and heat.
  - It can be applied by brush and spray.
  - It does not leave waste and color in mold and concrete.
  - It helps to protect the concrete as well as to help extend the life of the mold.

**Application Instructions**

Surface Quality: The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts should be removed. Surface should be dry.

Surface Preparation: If there are binding wires, cement bag paper, wood parts, etc., they must be cleaned. There should be no water accumulation on the surface. Before the iron covering, masonry should be preferred and it should be ready for use on the construction site.

Mixing: Mix with a low-speed mixer in a clean container, free of any obstructive material, or in its package for a short time. Application can be done by roller, brush, spray. TEKNOIL PRO should be applied in a thin layer, homogeneously. No oil ponding should occur on the mold. The oil ponds should be removed with sponge, cloth, etc.

Consumption: According to the roughness of the surface and the mold type; 35-45 gr/m<sup>2</sup> for absorbent surfaces (wood, etc.) 2, 15-25 gr/m<sup>2</sup> for non-absorbent surfaces (steel, plastic, etc.)

It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The areas of contact with the skin and hands should be cleaned with water.

- Application Notes / Restrictions**
- The product may be irritating to the skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
  - Do not add foreign substances.
  - Pretesting is recommended for different applications.

## Technical Data

General Information	
Color	Dark brown liquid
Packaging	30 lt bucket, 210 lt barrel
Density (kg/lt)	0,90 (± 0,03)
Structure	Mineral Oil Based
Flash point (°C)	> 95
Kinematic Viscosity (40 °C, cSt)	13,7
Refractive Index	1.4855
Acidity Value	13 mg KOH/gr

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoil W

## Water Based Release Agent for Wooden Molds



Public Pos. No: 04.116/1

**Product Description** It is a water based, oil based mold release which is used for the easy removal of wooden molds before concrete casting and for obtaining smooth surface concrete.

**Areas of Usage**

- It's used especially in smooth molds with low absorbency or absorptive molds,
- In wooden mold,
- When it is desired to increase mold productivity,
- In accelerating the mold workmanship.

**Features and Benefits**

- It doesn't damage concrete and molds.
- It doesn't cause deterioration on the surfaces, dust on molds.
- It is not affected by cold and heat.
- It can be applied by brush and spray.
- It does not leave waste and color in mold and concrete.
- It helps to protect the concrete as well as to help extend the life of the mold.

**Application Instructions**

The surfaces must be clean, smooth, solid, free from any antiadhesive substance such as dust, oil, dirt, rust, mold oil, detergent and waste. Weak parts should be removed. Surface should be dry. If there are binding wires, cement bag paper, wood parts, etc., they must be cleaned. There should be no water accumulation on the surface. Before the iron covering, masonry should be preferred and it should be ready for use on the construction site.

Mix with a low-speed mixer in a clean container, free of any obstructive material, or in its package for a short time. Application can be done by roller, brush, spray. TEKNOIL W should be applied in a thin layer, homogeneously. No oil ponding should occur on the mold. The oil ponds should be removed with sponge, cloth, etc.

**Application Notes / Restrictions**

- Second layer can be applied on very absorbent surfaces.
- Newly applied mold surfaces must be protected from rain before concrete casting.
- New wooden molds may need to be greased 2-3 times with the reason that the wood is hollow before the first use.
- The product may be irritating to the skin; work clothes, protective gloves, masks and glasses must be used. Protective cream can also be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Do not add foreign substances.
- Pretesting is recommended for different applications.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. The areas of contact with the skin and hands should be cleaned with water.

## Technical Data

General Information	
Color	White liquid
Density	1,00±0,03 kg/l <sup>t</sup> (20°C)
Structure	Water based Mineral Oil Based
Consumption	35-45 gr/m <sup>2</sup> for absorbent surfaces 15-25 gr/m <sup>2</sup> for non-absorbent surfaces
Packaging	30 lt bin or 210 lt barrel
Shelf Life	24 months in unopened original packaging
Kinematic Viscosity (40°C, cSt)	29 - 36 cp (20°C)

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoretarder

## Set Retarding Admixture For Concrete



Public Pos. No: 04.113/2

**Product Description** It is an additive retarding setting time in concrete and mortar.

### Areas of Usage

- It's used in all types of concrete and mortar where medium and long-term setting delay is desired,
- In situations where quality of all types of concrete is desired at high temperatures,
- In large volume concrete castings,
- In situations where installation conditions will take a long time,

### Features and Benefits

- It prolongs the set period by control.
- Reduces hydration heat, reduces thermal shrinkage cracks.
- Allows to cast concrete in hot weather.
- Does not affect final strengths, improves workability.
- Facilitates casting process.

### Application Instructions

Surface Preparation: It should be preferred when screed, plaster or concrete is to be cast where the ambient temperature is highest. Morning or evening hours are the best for concrete casting. Additional precautions are necessary to be taken in advance to protect the surface from frost, rain, dew and rime.

Surface and Ambient Temperature: TEKNORETARDER may not be sufficient at temperatures above (+5°C) - (+35°C), (+35°C). It is absolutely necessary to take additional protective measures. As an additional protection; cooling the concrete mixture water depending on the ambient and the concrete temperature, using ice particles, wetting the mold, choosing modified cements with late setting, using fly ash, etc. are required.

The air temperature, the cement type and the freshness affect the set time. Appropriate dosing for TEKNORETARDER is determined by preparing test specimens at the construction site, mixing water or fresh concrete is added at appropriate dosage.

The use of TEKNORETARDER in concrete:

The mixing properties of a concrete sample decided to be cast on the construction site are as follows.

General Information	
Concrete Class	C 25
Maximum Grain Diameter	22 mm
Water Cement (CEM 1 42,5 R)	181 kg
Water / Concrete (W / C) Ratio	370 kg
Crushed Sand (0-5 mm)	0,49
Stone Dust	454 kg
Aggregate (5-12 mm)	335 kg
Aggregate (12-22 mm)	468 kg
Superplasticizer	454 kg
Air Content	3,7 kg
Slump	% 1,516 cm
Determination of the amount of TEKNORETARDER to be used Up to 0.25 - 2% of binder amount.	
In the example 1% of the binder is received. For 370 kg cement	3,7 kg

TEKNORETARDER can be added in concrete in the construction site or ready mixed concrete production plant. After TEKNORETARDER is added in concrete, it should be stirred for 5 minutes at high speed. Then the concrete should be placed in the mold.

### Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn. Suitable glasses and mask should be used.
- Instead of CEM I cement, we recommend using modified cement with low hydration heat.
- In the case of concrete casting in low temperatures below +35°C, the measures recommended in the standard are required.
- Mixed water of plaster, screed or concrete should be reduced by about 3-5%.
- Pretesting concrete casting is recommended.
- It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35°C), rain and frost. Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

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**Technical Data**

<b>General Information</b>	
Color	Light Yellow
Density	1,1 kg/l
Consumption	0.25% to 2.00% of the cement weight
Packaging	30 kg bin
Shelf Life	12 months in unopened original packaging
Chlorine content (EN 480-10)	< 0,1 %
Alkali content (EN 480-12)	< 5

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# Teknoaccelerator

## Setting Accelerator Concrete Admixture



**Product Description** New generation hardening accelerating concrete and mortar additive. It improves the early strength of the concrete without affecting the final strengths and does not contain chlorine.

**Areas of Usage**

- It can be used in the case of reinforcement because it does not contain chlorine,
- Where concrete and mortar are wanted to be set,
- In cases where light frost effects continue throughout the day
- Can be used very high early strength demands of 6-24 hours in concretes with a temperature between +5°C and +25°C in ready mixed concrete plants,

**Features and Benefits**

- As a result of reactions of cement in fresh concrete, it accelerates the initial formation of aluminates and silicate gels.
- It accelerates the hydration of fresh concrete and enables fast concrete to harden and gain strength.
- TEKNOACCELERATOR can normally be used with superplasticizer additives. The addition of TEKNOACCELERATOR does not change the positive effects of superplasticizers (fluidisation and curing behavior, etc.).
- Thanks to a fast setting, it saves time in places where it is thought to take mould early and also provides savings because it reduces the application temperature and duration.

**Application Instructions**

It should be preferred when screed, plaster or concrete is to be cast where the ambient temperature is highest. Noon hours are the best time to do this application. Additional precautions are necessary to be taken in advance to protect the surface from frost, rain, dew and rime. TEKNOACCELERATOR is used by adding to the product mixture water in concrete or to low-mix fresh concrete by mixing directly. When added directly to fresh concrete, the mixing duration is increased by 3 minutes at high speed to ensure homogeneity. Before concrete is emptied, it should be visually checked that it has a homogeneous consistency.

It is recommended to use TEKNOFLOW SUPER together by hand or mortar machines to increase the flow while screeding.

## Application Notes / Restrictions

- During the application of the product, work clothes suitable for occupational health and safety rules should be worn. Suitable glasses and mask should be used.
- The mold and reinforcement must be protected against water, snow and ice, and if necessary preheated to a minimum of 0°C.
- If possible, wooden molds must be used instead of steel molds.
- Cements with high clinker ratio should be preferred instead of using blended cement.
- Molds should be insulated against temperature losses.
- The fresh concrete temperature should be at least 5-15°C depending on the ambient temperature and the thickness of the concrete casting.
- The loss of temperature and moisture should be avoided by covering or isolating the concrete and the concrete must be protected very tightly until reaching the strength limit of 4-5 N / mm<sup>2</sup>
- If TEKNOACCELERATOR is frozen in barrel, it should be thawed and mixed in a place with high ambient temperature. It should not be contacted directly with fire. At the end of thaw, the product features do not change.
- In using TEKNOACCELERATOR, local materials should be tried and appropriate mix of concrete should be taken into consideration
- TEKNOACCELERATOR should not be added to dry cement.
- TEKNOACCELERATOR should be added with mixture water or added at the end of the mixing process.
- Before use, conformity tests should be performed.
- Hands should be cleaned thoroughly with water and detergent before concrete or mortar is fully cured and hardened.

## Technical Data

General Information	
Chemical Structure	Mixture of organic and inorganic substances
Color	Yellowish Clear Liquid
Density	1,40 (± 0,05) kg/lit
Packaging	35 kg bin
Consumption	0.5% to 2.0% of the cement weight
Shelf Life	12 months in unopened original packaging
Freezing Point	-15°C
PH	6-10
Chloride Amount	< 0.1% Chlorine free

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# STRUCTURAL REINFORCEMENT PRODUCTS



# Teknobond 400

Epoxy Based, Two Component, Thixotropic, Structural, Adhesive and Repair Mortar



Public Pos. No: 04.613/8B

**Product Description** Overhead and all kinds of anchoring in thixotropic consistency specially developed for horizontal applications, high strength epoxy material used in bonding and repair works.

**Areas of Usage**

- In iron core planting, repairing all kinds of materials such as concrete stone
- In the repair and isolation of large cracks,
- It is used for adhering materials such as tiles, granites to polished surfaces.
- All kinds of metal and steel are installed and adhered to concrete and steel building elements in the evening,
- In closing the outer surfaces in the crack injection and fixing of the injection packers,
- Fixed railings and earthquake dampers in bridges and viaducts,
- It is used to fix anchor elements.

**Features and Benefits**

- Its application is a very easy material.
- Water and gas are impermeable.
- It is resistant to chemicals and abrasion.
- It provides excellent adhesion for concrete.
- Mechanical strength is very fast.
- It will not retract.

**Application Instructions**

Surface Quality: The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>

Surface Preparation: The holes for the ore planting should be at least 4 mm wider than the diameter of the iron. The surfaces should be cleaned with compressed air, oil, dust, dirt and water should not remain. The anchor bars must be ribbed, dry, oil-free and passive.

Mixing: After component B has been added to component A, stir for 2-3 minutes until a homogeneous color with a low speed, electric stirrer (up to 400 rpm) is obtained.

The mixture is first rubbed into the hole then to iron. The ironstones are slowly turned and thrust into the hole. To make sure that the hole is completely placed in the iron, iron is hit with hard objects such as sledgehammer, hammer etc. The next day, the iron is tried to be pulled by hand to make sure that the cured epoxy is hardened. This process gives an idea of whether or not the planting work is done correctly. It is advisable to carry out experiments with a tensile testing machine, especially for strengthening works.

Teknobond 400 can be applied successfully in various works such as fixing iron to iron, iron to brick.

**Application Notes / Restrictions**

- Do not apply if the temperature is below +5°C.
- Solvent-free, cannot be thinned with thinner.
- When mixing and applying, use rubber gloves and work gloves to protect your skin and eyes from exposure. Especially eyes should be carefully protected.
- If it contacts with eyes, rinse your eyes with plenty of water for about 15 minutes and immediately contact a doctor.
- Do not add any foreign material, water into the product.

- In extreme hot weather, the mixture should be made to be consumed because the product will harden immediately when mixed.
- The material spilled around and contaminated with application equipment can be cleaned with Tekno Clean Thinner.

## Technical Data

General Information	
Color (A + B)	Grey
Mixture Ratio	3:1 (by weight)
Mixture Density	~ 1,60 kg / lt
Package	5 kg set
Application Information	
Shelf Life	12 months in unopened original packaging
Consumption	16 mm ribbed barrel, 20 mm hole, approx. 0,100 kg product is required to anchor.
Recoating Interval	< 24
Pot Life	~ 30 minutes (20°C)
Cleaning Time	~ 60 minutes (20°C)
Full Cure Time	7 days
Performance Information	
Pressure Strength	> 75 N/mm <sup>2</sup> (TS EN 196-1)
Bending Strength	> 25 N/mm <sup>2</sup>
Concrete Adhesion	> 4 N/mm <sup>2</sup> (Rupture from Concrete) (TS EN 4624)
Adhesion to Steel	> 3,0 N/mm <sup>2</sup> (TS EN 4624)
Bending Strength	> 20.0 N/mm <sup>2</sup> (TS EN 196-1)
Service Temperature	-15°C to + 90°C

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknobond 400 D

## Epoxy Adhesive for Dilatation Membranes



Public Pos. No: 04.613/8B

**Product Description** Overhead and adhesion of PVC, TPE dilatation membranes to dilatation for horizontal applications is a two component, high strength epoxy material used in the thixotropic consistency, adhesion and repair work specially developed for the epoxy resin.

**Areas of Usage**

- In bonding the dilatation tapes to the concrete,
- All kinds of concrete, marble, stone materials such as repair, glued,
- It is used for adhering materials such as tiles, granites to polished surfaces.

**Features and Benefits**

- Its application is a very easy material.
- Water and gas are impermeable.
- It is resistant to chemicals and abrasion.
- It provides excellent adhesion for concrete.
- It will not retract.

**Application Instructions**

Surface Quality: The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>. Surface Preparation: A masking band is placed on both sides of the dilatation to ensure that the dilatation band is properly removed and that the epoxy does not spread around.

Mixing: After component B has been added to component A, stir for 2-3 minutes until a homogeneous color is obtained with a low speed, electric stirrer (up to 400 rpm).

TEKNOBOND 400 D epoxy is applied as minimum 5 cm to the right and left sides of the dilatation band. It is then glued onto the dilatation band. It is seen that the epoxy comes out of the band holes. The next day, the second layer is applied on the band as slightly overflow on the edges. It is advisable to make an inverted or flat omega ( $\Omega$ ) in the middle of the dilation so that the band does not consume its elasticity immediately.

**Application Notes / Restrictions**

- Do not apply if the temperature is below +5°C.
- Solvent-free, cannot be thinned with thinner.
- When mixing and applying, use rubber gloves and work gloves to protect your skin and eyes from exposure. Especially eyes should be carefully protected.
- If it contacts with eyes, rinse your eyes with plenty of water for about 15 minutes and immediately contact a doctor.
- Do not add any foreign material, water into the product.
- In extreme hot weather, the mixture should be prepared as consumed because the product will harden immediately when mixed.
- The material spilled around and contaminated with application equipment can be cleaned with Tekno Clean Thinner.

## Technical Data

General Information	
Color (Mixture)	Grey
Density	~ 1.80
Package	5 kg set
Shelf Life	12 months in unopened original packaging
Application Information	
Consumption	1.00 kg / metric.
Mixture Ratio	3A / 1B (Weighted)
Pot Life	~ 30 minutes (20°C)
Performance Information	
Compressive strength (7 days)	≥ 72 N/mm <sup>2</sup>
Concrete Adhesion	≥ 3,0 N/mm <sup>2</sup> (Rupture from Concrete)
Steel Adhesion	≥ 3.5 N/mm
Full Strength	27 days
Cleaning Time	~60 minutes (20°C)

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknobond 400 S

## Cartridge Type Anchoring Epoxy



**Product Description** Epoxy acrylate based, two component, thixotropic, fast curing, anchor material

### Areas of Usage

- Accessories and connecting rods; concrete, hollow or filled bricks, etc. in anchors and repairs.
- In the planting of metal sprouts,
- In prefabricated member anchors,
- Fixing of injection packers and apparatus.
- In anchors of bolts and pins,
- Central heating and ventilation etc. installation of pipes and fittings
- It is used for bonding all types of building materials.

### Features and Benefits

- It hardens very quickly and gains mechanical strength very quickly.
- The application is easy, saving time.
- It is pasty; sagging, overhead applications can be used easily.
- Protect equipment against corrosion.
- It has high resistance against chemical substances.

### Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. The concrete lower surface must be clean, strong and have sufficient compressive strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength.

Drill the hole in the required diameter and depth with hammer drill. The hole diameter and depth should be according to the size of the anchor element to be used. The opened hole should be cleaned starting from the bottom with a round wire brush and compressed air. No foreign matter such as dust, dirt, oil, etc. should remain. Press the trigger until the two separate components in the cartridge come out of the static mixer. Slowly pull out the cartridge while inserting the resin, beginning at the bottom of the hole. Make sure there are no air gaps inside. Extension tip can be used in deep holes. Insert the anchor element by rotating. Once some resin has come out, the anchor element should be placed in the hole in the resin gelling period. During hardening the anchorage element must never be moved or loaded. Work clothes and protective gloves, glasses and gloves suitable for work and worker health should be used during application. Due to the irritating effects of cured materials, the components should not come into contact with the skin and the eye, and should immediately be washed with plenty of water and soap in case of contact.

### Application Notes / Restrictions

- Use anchoring anchors (bricks or blocks) to fix anchoring material to hollow material
- Do not use the first mixture out of the gun.
- Open the door by turning it and remove it, insert a static mixer tip. Place the cartridge in the gun and start applying. When the application is interrupted, the static mixer tip may be left on the cartridge after the pressure in the gun has been drained.
- If the resin has hardened in the static mixer, a new tip must be fitted before starting work. When storing an opened cartridge, remove the static mixer by rotating it, clean the cartridge mouth with a clean, dry cloth, and close the lid.

- It contains styrene and is flammable.
- Harmful by inhalation. Skin and eyes may be irritated.
- Keep away from children's reach.
- Do not breathe. Use only in well-ventilated area.
- The product may irritate skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.
- Immediately after application, before hardened, the equipment should be cleaned with Tekno Thinner. The hardened epoxy mortar can only be mechanically cleaned.

## Technical Data

General Information		
Package	345 ml cartridges	
Shelf Life	12 months in unopened original packaging	
Application Information		
Pot Life	7-10 minutes (20°C)	
Full Curing	7 days	
Recoatibility	20°C 1 hour	
Cleaning Time	~ 45 minutes (20°C)	
Service Temperature	0°C to +80°C	
Performance Information		
Pressure Resistance (7 days)	60-70 N/mm <sup>2</sup>	(TS EN 196-1)
Adherence (Concrete Surface, 7 days)	> 4 N/mm <sup>2</sup> (Rupture from Concrete)	(TS EN 4624)
Bending Strength (7 days)	18-20 N/mm <sup>2</sup>	(TS EN 196-1)
Extraction Strength	≤ 0.6 mm (under 75 kN load)	(TS EN 1181)
Tensile Load Impact Creep	≤ 0.6 mm (after 3 months under 50 kN load)	(TS EN 1544)
Standard	According to TS EN 1504-6	

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

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Surface Temperature (°C)	Workability Time (min)	Curing Time (min)
-5	50	90
5	21	50
15	6	35
25	3	30
35	2	25

## Teknobond 401 S

### Cartridge Type Anchoring Epoxy



**Product Description** Epoxy acrylate based, two component, thixotropic, fast curing, anchor material

#### Areas of Usage

- Accessories and connecting rods; concrete, hollow or filled bricks and so on. They are anchored and repaired.
- In the planting of metal sprouts,
- In prefabricated member anchors,
- Fixing of injection packers and apparatus.
- In anchors of bolts and pins,
- Central heating and ventilation etc. installation of pipes and fittings
- It is used for bonding all types of building materials.

#### Features and Benefits

- It hardens very quickly and gains mechanical strength very quickly.
- Its application is easy, it saves time.
- It is pasty; sagging, overhead applications can be used easily.
- Protect equipment against corrosion.
- It has high resistance against chemical substances.

#### Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. The concrete lower surface must be clean, strong and have sufficient compressive strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength.

Drill the hole in the required diameter and depth with hammer drill. The hole diameter and depth should be according to the size of the anchor element to be used. The opened hole should be cleaned starting from the bottom with a round wire brush and compressed air. No foreign matter such as dust, dirt, oil, etc. should remain. Press the trigger until the two separate components in the cartridge come out of the static mixer. Starting from the bottom of the hole, gently pull out the cartridge while inserting the resin, being careful not to leave any air voids inside. Extension tip can be used in deep holes. Insert the anchor element by rotating. Once some resin has come out, the anchor element should be placed in the hole in the resin gelling period. During hardening the anchorage element must never be moved or loaded. Work clothes and protective gloves, glasses and gloves suitable for work and worker health should be used during application. Due to the irritating effects of cured materials, the components should not come into contact with the skin and the eye, and should immediately be washed with plenty of water and soap in case of contact.

#### Application Notes / Restrictions

- Use anchoring anchors (bricks or blocks) to fix anchoring material to hollow material
- Do not use the first mixture out of the gun.
- Open the door by turning it and remove it, insert a static mixer tip. Place the cartridge in the gun and start applying. When the application is interrupted, the static mixer tip may be left on the cartridge after the pressure in the gun has been drained.
- If the resin has hardened in the static mixer, a new tip must be fitted before starting work. When storing an opened cartridge, remove the static mixer by rotating it, clean the cartridge mouth with a clean, dry cloth, and close the lid.

- It contains styren and is flammable.
- Harmful by inhalation. Skin and eyes may be irritated.
- Keep away from children's reach.
- Do not breathe. Use only in well-ventilated area.
- The product may irritate skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. The hardened epoxy mortar can only be mechanically cleaned.

## Technical Data

General Information		
Package	410 ml cartridges	
Shelf Life	12 months in unopened original packaging	
Application Information		
Pot Life	7-10 minutes (20°C)	
Full Curing	7 days	
Recoatability	1 hour	
Cleaning Time	~ 45 minutes (20°C)	
Service Temperature	0°C to +80°C	
Performance Information		
Pressure Resistance (7 days)	60-70 N / mm <sup>2</sup>	(TS EN 196-1)
Adherence (Concrete Surface, 7 days)	> 4 N/mm <sup>2</sup> (Rupture from Concrete)	(TS EN 4624)
Bending Strength (7 days)	18-20 N/mm <sup>2</sup>	(TS EN 196-1)
Extraction Strength	≤ 0.6 mm (under 75 kN load)	(EN 1181)
Tensile Load Impact Creep	≤ 0.6 mm (after 3 months under 50 kN load)	(EN 1544)
Standard	According to TS EN 1504-6	

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

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Surface Temperature (°C)	Workability Time (min)	Curing Time (min)
-5	50	90
5	21	50
15	6	35
25	3	30
35	2	25

## Teknobond 400 P

### Cartridge Type Anchoring Polyester



**Product Description** Polyester based, two component, thixotropic, fast curing, anchoring material

#### Areas of Usage

- Accessories and connecting rods; concrete, hollow or filled bricks, etc. in anchors and repairs.
- In the planting of metal sprouts,
- In prefabricated member anchors,
- Fixing of injection packers and apparatus.
- In anchors of bolts and pins,
- Central heating and ventilation etc. installation of pipes and fittings
- It is used for bonding all types of building materials.

#### Features and Benefits

- It hardens very quickly and gains mechanical strength very quickly.
- Its application is easy, it saves time.
- It is pasty; sagging, overhead applications can be used easily.
- Protect equipment against corrosion.
- It has high resistance against chemical substances.

#### Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. The concrete lower surface must be clean, strong and have sufficient compressive strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength.

Drill the hole in the required diameter and depth with hammer drill. The hole diameter and depth should be according to the size of the anchor element to be used. The opened hole should be cleaned starting from the bottom with a round wire brush and compressed air. No foreign matter such as dust, dirt, oil, etc. should remain. Press the trigger until the two separate components in the cartridge come out of the static mixer. Slowly pull out the cartridge while inserting the resin, beginning at the bottom of the hole. Make sure there are no air gaps inside. Extension tip can be used in deep holes. Insert the anchor element by rotating. Once some resin has come out, the anchor element should be placed in the hole in the resin gelling period. During hardening the anchorage element must never be moved or loaded. Work clothes and protective gloves, glasses and gloves suitable for work and worker health should be used during application. Due to the irritating effects of cured materials, the components should not come into contact with the skin and the eye, and should immediately be washed with plenty of water and soap in case of contact.

#### Application Notes / Restrictions

- Use anchoring anchors (bricks or blocks) to fix anchoring material to hollow material
- Do not use the first mixture out of the gun.
- Open the door by turning it and remove it, insert a static mixer tip. Place the cartridge in the gun and start applying. When the application is interrupted, the static mixer tip may be left on the cartridge after the pressure in the gun has been drained.
- If the resin has hardened in the static mixer, a new tip must be fitted before starting work. When storing an opened cartridge, remove the static mixer by rotating it, clean the cartridge mouth with a clean, dry cloth, and close the lid.

- Contains styren.
- Combustible.
- Harmful by inhalation. Skin and eyes may be irritated.
- Keep away from children's reach.
- Do not breathe. Use in a well-ventilated area.
- The product may irritate skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. The hardened epoxy mortar can only be mechanically cleaned.

## Technical Data

General Information		
Package	345 ml cartridges	
Shelf Life	12 months in unopened original packaging	
Application Information		
Pot Life	~ 7-10 minutes (20°C)	
Full Curing	7 days	
Recoatability	20°C 1 hour	
Cleaning Time	~ 45 minutes (20°C)	
Service Temperature	0°C to +80°C	
Performance Information		
Pressure Resistance (7 days)	60-70 N / mm <sup>2</sup>	(TS EN 196-1)
Adherence (Concrete Surface, 7 days)	≥ 4 N/mm <sup>2</sup> (Rupture from Concrete)	(TS EN 4624)
Bending Strength (7 days)	18-20 N/mm <sup>2</sup>	(TS EN 196-1)
Extraction Strength	≤ 0.6 mm (under 75 kN load)	(EN 1181)
Tensile Load Impact Creep	≤ 0.6 mm (after 3 months under 50 kN load)	(EN 1544)
Standard	According to TS EN 1504-6	

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

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Surface Temperature (°C)	Workability Time (min)	Curing Time (min)
-5	50	90
5	21	50
15	6	35
25	3	30
35	2	25

## Teknobond 401 P

### Cartridge Type Anchoring Polyester



**Product Description** Polyester based, two component, thixotropic, fast curing, anchoring material

#### Areas of Usage

- Accessories and connecting rods; concrete, hollow or filled bricks, etc. in anchors and repairs.
- In the planting of metal sprouts,
- In prefabricated member anchors,
- Fixing of injection packers and apparatus.
- In anchors of bolts and pins,
- Central heating and ventilation etc. installation of pipes and fittings
- It is used for bonding all types of building materials.

#### Features and Benefits

- It hardens very quickly and gains mechanical strength very quickly.
- Its application is easy, it saves time.
- It is pasty; sagging, overhead applications can be used easily.
- Protect equipment against corrosion.
- It has high resistance against chemical substances.

#### Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. The concrete lower surface must be clean, strong and have sufficient compressive strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength.

Drill the hole in the required diameter and depth with hammer drill. The hole diameter and depth should be according to the size of the anchor element to be used. The opened hole should be cleaned starting from the bottom with a round wire brush and compressed air. No foreign matter such as dust, dirt, oil, etc. should remain. Press the trigger until the two separate components in the cartridge come out of the static mixer. Slowly pull out the cartridge while inserting the resin, beginning at the bottom of the hole. Make sure there are no air gaps inside. Extension tip can be used in deep holes. Insert the anchor element by rotating. Once some resin has come out, the anchor element should be placed in the hole in the resin gelling period. During hardening the anchorage element must never be moved or loaded. Work clothes and protective gloves, glasses and gloves suitable for work and worker health should be used during application. Due to the irritating effects of cured materials, the components should not come into contact with the skin and the eye, and should immediately be washed with plenty of water and soap in case of contact.

#### Application Notes / Restrictions

- Use anchoring anchors (bricks or blocks) to fix anchoring material to hollow material
- Do not use the first mixture out of the gun.
- Open the door by turning it and remove it, insert a static mixer tip. Place the cartridge in the gun and start applying. When the application is interrupted, the static mixer tip may be left on the cartridge after the pressure in the gun has been drained.
- If the resin has hardened in the static mixer, a new tip must be fitted before starting work. When storing an opened cartridge, remove the static mixer by rotating it, clean the cartridge mouth with a clean, dry cloth, and close the lid.

- Contains styren.
- Combustible.
- Harmful by inhalation. Skin and eyes may be irritated.
- Keep away from children's reach.
- Do not breathe. Use in a well-ventilated area.
- The product may irritate skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. The hardened epoxy mortar can only be mechanically cleaned.

## Technical Data

General Information		
Package	410 ml cartridges	
Shelf Life	12 months in unopened original packaging	
Application Information		
Pot Life	~ 7-10 minutes (20°C)	
Full Curing	7 days	
Recoatibility	20°C 1 hour	
Cleaning Time	~ 45 minutes (20°C)	
Service Temperature	0°C to +80°C	
Performance Information		
Pressure Resistance (7 days)	60-70 N / mm <sup>2</sup>	(TS EN 196-1)
Adherence (Concrete Surface, 7 days)	≥ 4 N/mm <sup>2</sup> (Rupture from Concrete)	(TS EN 4624)
Bending Strength (7 days)	18-20 N/mm <sup>2</sup>	(TS EN 196-1)
Extraction Strength	≤ 0.6 mm (under 75 kN load)	(EN 1181)
Tensile Load Impact Creep	≤ 0.6 mm (after 3 months under 50 kN load)	(EN 1544)
Standard	According to TS EN 1504-6	

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

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Surface Temperature (°C)	Workability Time (min)	Curing Time (min)
-5	50	90
5	21	50
15	6	35
25	3	30
35	2	25

# Teknobond 401 W

## Cartridge Type Anchoring Epoxy for Wet Application



Public Pos. No: 04.116/1

**Product Description** Epoxy acrylate based, two component, moisture tolerant, thixotropic, fast curing, anchor material.

- Areas of Usage**
- Accessories and connecting rods; concrete, hollow or filled bricks and so on. in their anchors and in repair.
  - In metal sprout cultivation, prefabricated element anchors, fixing of injection packers and apparatus,
  - In anchors of bolts and pins, central heating ventilation, etc. installation of pipes and fittings.
  - It is used for bonding all types of building materials.

- Features and Benefits**
- It hardens very quickly and gains mechanical strength very quickly.
  - Its application is easy, it saves time.
  - It is pasty, does not sag; can easily be used in overhead applications.
  - Protect equipment against corrosion.
  - It has high resistance against chemical substances.
  - It can be easily applied even on moist surfaces.

**Application Instructions**

Surface Quality: The application surface must be free of all kinds of dust, dirt, weak and loosing particles, cement grout residues, oil and grease and be dry. The concrete lower surface must be clean, strong and have sufficient compressive strength.

Surface Preparation: The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength.

Surface and Ambient Temperature: +5°C min. +35°C max.

Application Instructions: Open the cover by turning and remove, install the static mixer. Place the cartridge in the gun and start applying. When the application is interrupted, the static mixer tip may be left on the cartridge after the pressure in the sprayer has been drained. If the resin has hardened in the static mixer, a new insert must be fitted before starting work. When storing an opened cartridge, remove the static mixer by rotating it, clean the cartridge mouth with a clean, dry cloth, and close the lid.

Application Method / Equipment: Drill the hole in the required diameter and depth with hammer drill. The hole diameter and depth should be according to the size of the anchor element to be used. The opened hole should be cleaned starting from the bottom with a round wire brush and compressed air. No foreign matter such as dust, dirt, oil, etc. should remain. Press the trigger until the two separate components in the cartridge come out of the static mixer. Slowly pull out the cartridge while inserting the resin, beginning at the bottom of the hole. Make sure there are no air gaps inside.

Extension tip can be used in deep holes. Insert the anchor element by rotating. Once some resin has come out, the anchor element should be placed in the hole in the resin gelling period. During hardening the anchorage element must never be moved or loaded. Work clothes and protective gloves, glasses and gloves suitable for work and worker health should be used during application. Due to the irritating effects of cured materials, the components should not come into contact with the skin and the eye, and should immediately be washed with plenty of water and soap in case of contact.

Cleaning: Parts in contact with the skin and hands should be washed with water and soap. In case of contact with eyes, consult a doctor.

Cleaning of Equipment: Immediately after application; Instruments should be cleaned with Tekno Thinner The hardened epoxy mortar can only be mechanically cleaned.

Potlife: ~ 8 minutes at 20°C

Cleaning Time: ~ 10 minutes at 20°C

## Application Notes / Restrictions

- Use anchoring anchors (bricks or blocks) to fix anchoring material to hollow material. Do not use the first mix out of the gun. Do not use the first mixture out of the gun.
- Contains styrene.
- Combustible.
- Harmful by inhalation. Skin and eyes may be irritated.
- Keep away from children's reach.
- Do not breathe.
- Use only in well-ventilated area.
- The product may irritate skin. Protective gloves, masks and goggles should be used. Hand protection cream may be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.

## Technical Data

General Information		
Full Cure	7 days	
Recoatability	1 hour	
Service Temperature	0°C to + 80°C	
Pressure Resistance (7 days)	≥ 70 N/mm <sup>2</sup>	TS EN 196-1
Adherence (concrete surface, 7 days)	≥ 3,0 N/mm <sup>2</sup> (Rupture from Concrete)	TS EN 4624
Bending Strength (7 days)	≥ 20 N/mm <sup>2</sup>	TS EN 196-1
Extraction Strength	≤ 0.6 mm (under 75 kN load)	EN 1181
Tensile Load Impact Creep	≤ 0.6 mm (after 3 months under 50 kN load)	EN 1544
Standard	According to TS EN 1504-6	
Packaging	410 ml cartridges	
Shelf Life	Closed and sealed in original package, away from sunlight, 9 months from date of production.	

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

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Surface Temperature (°C)	Workability Time (min)	Curing Time (min)
-5	50	90
5	12	50
15	6	35
25	3	30
35	2	25

## Teknobond 200

### Two Component Epoxy Paste Adhesive



**Product Description** Specially developed, epoxy based, thixotropic, two component adhesive for thin applications.

- Areas of Usage**
- In bonding TEKNOPLATE (carbon plate) materials,
  - In thin type applications,
  - For all kinds of metal plates, granite materials to be adhered to glossy surfaces
  - In fine repairs.

- Features and Benefits**
- Resistant to chemicals.
  - It provides excellent adhesion for concrete to wood and wood.
  - It has high mechanical strength.
  - Vertical applications do not sag.
  - Solvent-free

### Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength.

TEKNOPLATE's adhesive part of the concrete is gently wiped with Tekno Thinner. The thinner on the plate should not have humidity, water.

**Mixing:** TEKNOBOND 200 is supplied in ready-to-use sets according to mixture ratio. Before starting the mixing, make sure that the material temperatures are between +15 and +25°C. Component B must be completely poured into component A and component B must be free of any material. The mixture should be mixed with a mixer of approx. 300 rpm and a suitable mixer until a homogeneous mixture is obtained for at least 2-3 minutes, taking care not to leave any unmixed material on the sides and the edges of the package.

Within 24 hours of TEKNOBOND 300 application, TEKNOBOND 200 application should be started. The material should be applied with a spatula to obtain a thickness of 1-1.5 mm on the smooth surfaces of pre-prepared carbon fiber polymer plates (TEKNOPLATE). At the same time, TEKNOBOND 200 should be applied with a spatula so that primed surfaces can be obtained with a thickness of 1 - 1.5 mm. The carbon fiber polymer plates with adhesive should then be fixed to their places so that they are slightly stretched in the direction of the fibers and do not swell. Then they should be pressed by roller on the carbon plates in the direction of the fibers so that there is no space between them and the concrete surface. Carbon fibers do not burn but epoxy can ignite after a certain temperature. Because of this reason, very thin epoxy is applied on the carbon plate, then the sand is spread in dry condition and plaster is applied on it. Spreading sand provides adherence between the carbon plate and the plaster to be built. When resistance against fire is requested, it should be covered with fire resistant special mortars (TEKNOREP 450) in appropriate thickness.

## Application Notes / Restrictions

- In order to complete the hardening of the material, do not use below the minimum allowable temperature.
- Low temperatures will slow the hardening, while higher temperatures will accelerate the hardening.
- Pot life will also vary depending on the temperatures.
- The product may irritate skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Crystallization can be observed in the product if it remains long below 0°C. If the crystals are dissolved by bringing the product back to room temperature, it can be used without any problems.
- Do not add any solvents or other foreign substances into the product.
- Before the application, the design of the reinforcement project must be done by a civil engineer. Projected and responsible.
- Ambient and surface temperature should not be below +5°C and above +35°C when applied.
- The application should be made by experienced and competent persons.
- Care must be taken to prepare enough material to use within the study period.
- The final check of the application should be performed by the universities / independent testing organizations / inspectors.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. The hardened epoxy mortar can only be mechanically cleaned.

## Technical Data

General Information	
Color	Grey (blend)
Mixture Density	~ 1,65 kg/liter
Mixture Ratio	1 Unit Composition: 1 Unit B Composition (Weight)
Package	5 kg set
Application Information	
Consumption	1 m <sup>2</sup> 3 - 4 kg for plate bonding
Shelf Life	12 months in unopened original packaging
Pot Life	~ 30 minutes (20°C)
Cleaning Time	~ 45 minutes 20°C)
Recoating Interval	2-7 days
Full Strength	7 days
Performance Information	
Adhesion (steel and concrete)	> 4 N/mm <sup>2</sup>
Tensile Strength (TS EN 196-1)	> 25 N/mm <sup>2</sup>
Pressure Resistance (TS EN 196-1)	> 90 N/mm <sup>2</sup>

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

## Teknobond 300 Tix

### Epoxy Based Adhesive and Lamination Resin



#### Product Description

Two component, solvent free, thixotropic, epoxy based saturating resin and adhesive. It is used for bonding TEKNOWRAP 300 to the concrete surface.

#### Areas of Usage

- When applying TEKNOWRAP fibers by dry application method,
- As a primer for wet application system,

#### Features and Benefits

- Easy to mix, easy to apply with trowel and saturating rollers.
- It is for manual saturation.
- Mechanical strength is high.
- It is applied on vertical and overhead surfaces.
- It provides good adhesion to many surfaces.
- It has high mechanical properties.
- There is no need to apply a separate primer to the bottom.
- Solvent free.

#### Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>. Concrete should be strong and have sufficient strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. Weak concrete parts should be repaired and restored with high strength repair mortar. The plaster on the construction element must be removed, the surface must be cleaned, and necessary repairs should be made.

**Mixing:** After component B has been added to component A, mix it for 2-3 minutes with a low speed, electric stirrer (up to 400 rpm) until a homogeneous color is obtained.

**Application Method / Equipment:** TEKNOWRAP 300 is cut and made ready according to the application. Prepared TEKNOBOND 300 TIX mixture is put into concrete with a spatula or roller. It is then brought onto the TEKNOWRAP 300 to ensure that the epoxy is adhered to the carbon by hand. In adhesion process, the underlying epoxy is ensured to come out with a slight knurled roller. This process is done in such a way that the entire surface is homogeneously exposed to the epoxy top surface. If the epoxy is insufficient, the Teknobond 300 TIX is again filled and the carbon fibers are saturated with epoxy.

Carbon fibers do not burn but epoxy can ignite after a certain temperature. Because of this reason, very thin epoxy is applied on the carbon plate, then the sand is spread in dry condition and plaster is applied on it. Spreading sand provides adherence between carbon fiber and plaster.

#### Application Notes / Restrictions

- In case of eye contact, rinse with plenty of water for about 15 minutes and immediately contact a physician.
- Keep away from foodstuffs and children.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.

- Immediately after application, before hardened, the equipment should be cleaned with TEKNO Thinner. The hardened epoxy mortar can only be mechanically cleaned.

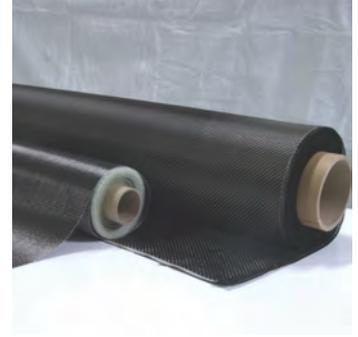
## Technical Data

<b>General Information</b>	
Color (Resin and Hardener Mixture)	Off-White
Mixture Density (A + B)	1.27 ± 0.03 kg/lit
Shelf Life	12 months in unopened original packaging
Package	5 kg set
<b>Application Information</b>	
Consumption	1-1,5 kg/m <sup>2</sup> for 300 gr/m <sup>2</sup>
Applicable Ground Temperature	(+5°C) - (+35°C)
Mixture Ratio (Weight)	3,85 units A: 1,15 units B
Pot Life	~30 minutes
<b>Performance Information</b>	
Concrete Adhesion	≥ 4.0 N/mm <sup>2</sup> (Rupture from Concrete)
Bending Strength	≥ 40 N/mm <sup>2</sup>
Pressure Resistance	≥ 80 N/mm <sup>2</sup>
Tensile Strength	≥ 30.0 Mpa
Full Strength	7 days

Technical information is approximate value obtained from the Tekno Construction Chemicals Laboratory works and are valid for the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.

# Teknowrap 220

220 gr/m<sup>2</sup> Unidirectional Carbon Fiber Fabric



## Product Description

Carbon fibers are one of the most strongest materials known in the world. Although carbon fibers in fabric fineness is 14 times stronger than the STL steel against tensile, its weight is around one fifth of steel. The fibers, which are normally in yarn softness, are easily brought to the desired shape and become rigid when laminated with special epoxy resin (TEKNOBOND 300 TIX).

## Areas of Usage

- Repair of medium and lightly damaged columns and beams,
- Corrosion damaged, repairing bridge, viaduct, column and beams.
- In the repair of historical monuments, mosque dome and minarets.
- Used in function changes.
- Places where there is a problem in concrete quality are used after the static project is done.

## Features and Benefits

- When it's wrapped around the stirrup tightening areas of the column, it acts an additional stirrup.
- Increase the cutting capacity of the column.
- Increases vertical transport capacity when wrapped around circular columns.
- It prevents the wall from being scattered in any kind of wall, in the face of impact and explosion.
- When the column is completely wrapped, the stretchability of the column increases in great extent, so there is no breakage in the columns even at larger oscillations.
- The most obvious advantage of the carbon fiber repair method is that it can achieve a multiple of the robustness achieved with conventional methods, even though it adds only a few millimeters of thickness.
- Stronger than steel but much more lightweight, no corrosion problem. It can easily take shape.

## Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>. Concrete should be strong and have sufficient strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. Weak concrete parts should be repaired and restored with high strength repair mortar. The plaster on the construction element must be removed, the surface must be cleaned, and necessary repairs should be made.

TEKNOWRAP 220 is cut and made ready for application. The prepared TEKNOBOND 300 TIX is rubbed to concrete. It is then brought onto the TEKNOWRAP 220 to ensure that the epoxy is adhered to the carbon by hand. In adhesion process, the underlying epoxy is ensured to come out with a slight knurled roller. If the epoxy is insufficient, the TEKNOBOND 300 TIX is again used to fill the carbon fibers with epoxy.

Carbon fibers do not burn but epoxy can ignite after a certain temperature. Because of this reason, very thin epoxy is applied on the carbon plate, then the sand is spread in dry condition and plaster is applied on it. Spreading sand provides adherence between carbon fiber and plaster.

## Application Notes / Restrictions

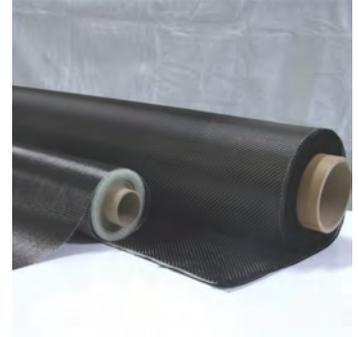
- TEKNOWRAP 220 systems should be implemented by specialist practitioners
- Prior to application, the design of the strengthening project must be made by a civil engineer
- It must be projected and held accountable.
- Final check of the application must be made by universities / independent testing organizations / inspectors.

## Technical Data

General Information	
Color	Black
Structure of Material	Carbon
Unit Weight	220 g/m <sup>2</sup>
Package	50 cm x 100 m roll
Shelf Life	Unlimited in Dry Storage Conditions
Nominal Wall Thickness	0.17 mm
Performance Information	
Tensile Strength	≥ 4,900 MPa
Modulus of Elasticity	≥ 220,000 Mpa
Elongation at Break	2.1%

# Teknowrap 300

300 gr/m<sup>2</sup> Unidirectional Carbon Fiber Fabric



## Product Description

Carbon fibers are one of the most strongest materials known in the world. Although carbon fibers in fabric fineness is 14 times stronger than the STL steel against tensile, its weight is around one fifth of steel. The fibers, which are normally in yarn softness, are easily brought to the desired shape and become rigid when laminated with special epoxy resin (TEKNOBOND 300 TIX).

## Areas of Usage

- Repair of medium and lightly damaged columns and beams,
- Corrosion damaged, repairing bridge, viaduct, column and beams.
- In the repair of historical monuments, mosque dome and minarets.
- Used in function changes.
- Places where there is a problem in concrete quality are used after the static project is done.

## Features and Benefits

- When it's wrapped around the stirrup tightening areas of the column, it acts an additional stirrup.
- Increase the cutting capacity of the column.
- Increases vertical transport capacity when wrapped around circular columns.
- It prevents the wall from being scattered in any kind of wall, in the face of impact and explosion.
- When the column is completely wrapped, the stretchability of the column increases in great extent, so there is no breakage in the columns even at larger oscillations.
- The most obvious advantage of the carbon fiber repair method is that it can achieve a multiple of the robustness achieved with conventional methods, even though it adds only a few millimeters of thickness.
- Stronger than steel but much more lightweight, no corrosion problem. It can easily take shape.

## Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>. Concrete should be strong and have sufficient strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. Weak concrete parts should be repaired and restored with high strength repair mortar. The plaster on the construction element must be removed, the surface must be cleaned, and necessary repairs should be made.

TEKNOWRAP 300 is cut and made ready for application. The prepared TEKNOBOND 300 TIX is rubbed to concrete. It is then brought onto the TEKNOWRAP 300 to ensure that the epoxy is adhered to the carbon by hand. In adhesion process, the underlying epoxy is ensured to come out with a slight knurled roller. If the epoxy is insufficient, the TEKNOBOND 300 TIX is again used to fill the carbon fibers with epoxy.

Carbon fibers do not burn but epoxy can ignite after a certain temperature. Because of this reason, very thin epoxy is applied on the carbon plate, then the sand is spread in dry condition and plaster is applied on it. Spreading sand provides adherence between carbon fiber and plaster.

## Application Notes / Restrictions

- TEKNOWRAP 300 systems should be implemented by specialist practitioners
- Prior to application, the design of the strengthening project must be made by a civil engineer
- It must be projected and held accountable.
- Final check of the application must be made by universities / independent testing organizations / inspectors.

## Technical Data

General Information	
Color	Black
Structure of Material	Carbon
Unit Weight	300 g/m <sup>2</sup>
Package	50 cm x 100 m roll
Shelf Life	Unlimited in Dry Storage Conditions
Nominal Wall Thickness	0.17 mm
Performance Information	
Tensile Strength	≥ 4,900 MPa
Modulus of Elasticity	≥ 230,000 Mpa
Elongation at Break	2.1%

# Teknowrap 600

600 gr/m<sup>2</sup> Bidirectional Carbon Fiber Fabric



**Product Description** Carbon fibers are one of the most strongest materials known in the world. Although carbon fibers in fabric fineness is 14 times stronger than the STL steel against tensile, its weight is around one fifth of steel. The fibers, which are normally in yarn softness, are easily brought to the desired shape and become rigid when laminated with special epoxy resin (TEKNOBOND 300).

**Areas of Usage**

- Repair of medium and lightly damaged columns and beams,
- Corrosion damaged, bridges, viaducts, columns and beams strengthened.
- It is used in the repair of historical monuments, mosque dome and minarets.
- Used in function changes.
- Places where there is a problem in concrete quality are used after the static project is done.

**Features and Benefits**

- When it's wrapped around the stirrup tightening areas of the column, it acts an additional stirrup.
- Increase the cutting capacity of the column.
- Increases vertical transport capacity when wrapped around circular columns.
- It prevents the wall from being scattered in any kind of wall, in the face of impact and explosion.
- When the column is completely wrapped, the stretchability of the column increases in great extent, so there is no breakage in the columns even at larger oscillations.
- The most obvious advantage of the carbon fiber repair method is that it can achieve a multiple of the robustness achieved with conventional methods, even though it adds only a few millimeters of thickness.
- Stronger than steel but much more lightweight, no corrosion problem. It can easily take shape.

**Application Instructions**

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>. Concrete should be strong and have sufficient strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. Weak concrete parts should be repaired and restored with high strength repair mortar. The plaster on the construction element must be removed, the surface must be cleaned, and necessary repairs should be made.

TEKNOWRAP 600 is cut and prepared according to the application. Wet bonding process is applied with prepared TEKNOBOND 300. Teknobond 300 is packed into a clean container like a clean basin. TEKNOWRAP 600 is immersed in it. It is necessary to ensure that the epoxy is homogeneously impregnated into the carbon fibers. Epoxy-impregnated TEKNOWRAP 600 is bonded to the concrete surface using TEKNOBOND 200.

Carbon fibers do not burn but epoxy can ignite after a certain temperature. Because of this reason, very thin epoxy is applied on the carbon plate, then the sand is spread in dry condition and plaster is applied on it. Spreading sand provides adherence between carbon fiber and plaster.

## Application Notes / Restrictions

- TEKNOWRAP 600 systems must be implemented by specialist appliances.
- During the application gloves, glasses etc. safety equipment such as TEKNOWRAP 600 it should not be held naked.
- Before the application, the design of the reinforcement project must be done by a civil engineer. Projected and responsible.
- The final check of the application should be performed by the universities / independent testing organizations / inspectors.

## Technical Data

General Information	
Color	Black
Structure of Material	Carbon
Unit Weight	600 g/m <sup>2</sup>
Shelf Life	Unlimited in Dry Storage Conditions
Nominal Wall Thickness	0.34 mm
Package	100 cm x 100 m roll. colitis
Performance Information	
Tensile Strength	4,900 MPa
Modulus of Elasticity	230,000 MPa
Elongation at Break	2.1%

## Teknoplate

### Carbon Fiber Plate



#### Product Description

A form of epoxy-impregnated carbon fiber strip, cured in unidirectional term and packed in a roll.

#### Areas of Usage

- In slabs, girders and bridges where the carrying capacity is to be increased,
- In the column strengthening,
- In the sagged upholstery,
- In bridges with load increments,
- In the seaming beams and balconies,
- In the colonies that lack access,
- In the repair of damaged building elements,
- It is used for repairing cut slabs.

#### Features and Benefits

- The application is very easy and fast, the possibility of workmanship is very low.
- Sold as 100 meter ready-made rolls.
- The tin plate or spiral can be used to cut it as far as necessary.
- It is very thin, it does not increase the section if it is too thin.
- It has very high tensile strength.
- The modulus of elasticity is too high.
- The chemical resistance is excellent.
- It has excellent fatigue strength.

#### Application Instructions

**Surface Quality:** The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm<sup>2</sup>), its pull-off strength should be at least 1.5 N/mm<sup>2</sup>. Concrete should be strong and have sufficient strength.

**Surface Preparation:** The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. Weak concrete parts should be repaired and restored with high strength repair mortar. TEKNOPLATE's adhesive part of the concrete is gently wiped with Tekno Thinner. There should be no thinner damp on the plate.

**Application Method / Equipment:** Prepared mixture is applied to both concrete and TEKNOPLATE with a spatula. In TEKNOPLATE (carbon plate) applications, the material is glued so that there is no air gap after the material is expected to attract itself for a while. Flat rollers or rolls are used over carbon fiber to ensure good adhesion. The epoxies on the surface are cleaned.

Carbon fibers do not burn but epoxy can ignite after a certain temperature. Because of this reason, very thin epoxy is applied on the carbon plate, then the sand is spread in dry condition and plaster is applied on it. Spreading sand provides adherence between the carbon plate and the plaster to be built.

#### Application Notes / Restrictions

- The material only runs in the fiber length direction. There is no resistance side by side.
- The product may irritate skin. Work clothes, protective gloves, masks and glasses must be used. Before starting to work, hand protection cream can be applied. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.

- Before the application, the design of the reinforcement project must be done by a civil engineer.
- The application should be made by experienced and competent persons.
- The final check of the application should be performed by the universities / independent testing organizations / inspectors.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. The hardened epoxy mortar can only be mechanically cleaned.

## Technical Data

General Information	
Color	Black
The	5 cm and 10 cm
Height	100 m roll
Thickness	1.2 mm -1.4 mm
Density	1,50 kg/lt
Shelf Life	Unlimited in Dry Storage Conditions
Flash Point	180 °C
Tensile Strength	≥ 2,800 MPa
Modulus of Elasticity	≥ 165,000 MPa at rupture
Elongation at Break	1.4%

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# TeknoBar C

## Carbon Fiber Rod



**Product Description** Epoxy impregnated, carbon fiber rod, cured in unidirectional form.

### Areas of Usage

- In slabs, girders and bridges where the carrying capacity is to be increased,
- With the column strengthened,
- In the sagged upholstery,
- On beams and balconies,
- In bridges with load increments,
- If there is a lack of facilities,
- In case of cut-off of the masonry and damage of the building elements,
- It is used in the restoration of historical monuments.

### Features and Benefits

- It is very light, it does not increase section if it is very thin,
- Very high strength,
- The modulus of elasticity is very high,
- The chemical resistance is excellent,
- The application is easy and fast,
- Labor mistakes are very few,
- It has excellent fatigue strength.

### Application Instructions

Surface Quality: Concrete should be strong and have sufficient strength.  
Surface Preparation: The floor should be cleaned, free from oil, dirt, dust, water and moisture. Weak concrete parts should be broken and repaired with high strength repair mortar and restored.  
Application Instructions: TEKNOBOND 400 is mixed proportionally. The stick is applied to the concrete and TEKNOBAR as thin layer. Rod; dust, oil and cores are cleaned and glued. The material only runs in the fiber length direction. No liability will be accepted for faults that occur during the application.

### Application Notes / Restrictions

- It is an easy to apply material. The tin plate or spiral can be cut to the desired size. Static It is recommended to use it after the project is done.
- The material only runs in the fiber length direction. There is no resistance side by side.
- The product may irritate the skin. Work clothes, protective gloves, masks and glasses must be used. Hand washing cream can be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Crystallization can be observed in the product if it remains long below 0°C. If the crystals are dissolved by bringing the product back to room temperature, it can be used without any problems.
- Do not add any foreign material into the product.
- Before the application, the design of the reinforcement project must be done by a civil engineer. It must be projected and held accountable.
- Practice is required to be done by experienced and competent people.

- The final check of the application should be performed by the universities / independent testing organizations / inspectors.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. The hardened epoxy mortar can only be mechanically cleaned.

## Technical Data

General Information	
Color	Black
Package	In desired dimension
Shelf Life	Unlimited in Dry Storage Conditions
Radius	7,5 mm - 12 mm - 20mm
Height	3m
Flash Point	180°C
Tensile Strength	> 2800 MPa
Modulus of Elasticity	> 165,000 Mpa
Elongation at Break	1.7%

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.

# TeknoBar G

## Glass Fiber Rod



**Product Description** Epoxy impregnated, glass fiber rod, cured in unidirectional form.

### Areas of Usage

- In slabs, bridges where the carrying capacity is to be increased,
- With the column strengthened,
- In the sagged upholstery,
- On beams and balconies,
- In bridges with load increments,
- If there is a lack of facilities,
- It is used in case of cutting of floor and damage of the building elements

### Features and Benefits

- It is very light, it does not increase the section if it is too thin.
- Very high strength.
- The modulus of elasticity is too high.
- The chemical resistance is excellent.
- Its application is easy and fast, few workmanship mistakes.
- It has excellent fatigue strength.

### Application Instructions

Surface Quality: Concrete should be strong and have sufficient strength.  
Surface Preparation: Floor must be cleaned, oil, dirt, dust, water, moisture should not remain. Weak concrete parts should be repaired and restored with high strength repair mortar.  
Application Instructions: TEKNOBOND 400 is mixed proportionally. It is applied as a thin layer to the concrete and TeknoBar to be bonded to the bar. The bar is glued by cleaning dust, oil and dirt. The material works only in the direction of the fiber length. No liability will be accepted for faults that occur during the application.

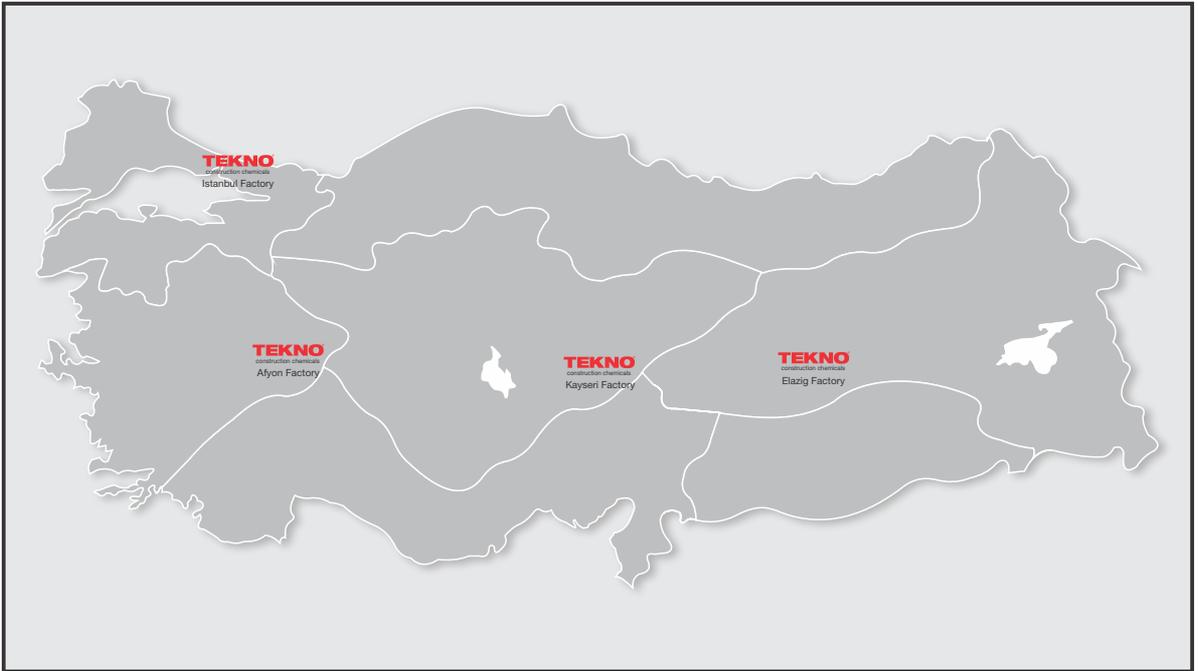
### Application Notes / Restrictions

- It is an easy to apply material. The tin plate or spiral can be cut to the desired size. Static
- It is recommended to use it after the project is done.
- The material only works in the fiber length direction. There is no resistance side by side.
- The product may irritate the skin. Work clothes, protective gloves, masks and glasses must be used. Hand washing cream can be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Crystallization can be observed in the product if it remains long below 0°C. If the crystals are dissolved by bringing the product back to room temperature, it can be used without any problems.
- Do not add any foreign material into the product.
- Before the application, the design of the reinforcement project must be done by a civil engineer. It must be projected and held accountable.
- The application should be made by experienced and competent persons.

## Technical Data

General Information	
Color	Off-White
Package	Desired dimension
Shelf Life	Unlimited in Dry Storage Conditions
Radius	12 mm - 16 mm - 20 mm - 25 mm - 28 mm
Height	2 and 6 m
Flash Point	180°C
Tensile Strength	> 1,600 MPa
Modulus of Elasticity	> 53,000 MPa
Elongation at Break	3%

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.















# TEKNO®

construction chemicals

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