

# Teknofay Plus

## Ceramic Tile Adhesive



TS EN 12004 – C1TE

Public Pos. No: 10.300.2202

**Product Description** It is a 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 extended working time.
- 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:** 6,5-7,5 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	6,5 ~ 7,5 l water / 25 kg powder
Pot Life	3 hours
Service Temperature	(-20 ° C) - (+70 ° 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 (13501-1)	A1

## Consumption Table

Teknofay Plus	1 m <sup>2</sup> Powder Consumption (kg)	Mixture Water Amount (lt)
25 kg kraft bag	4 – 5	6,5 - 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.

