

# Teknofay Flex

Flexible and High Performance Ceramic  
and Granite Adhesive



CE TS EN 12004 – C2TE S1

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**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 - 6,5 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 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 - 6,5 water / 25 kg powder
Pot Life	6 hours
Service Temperature	(-20°C) - (+70°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 (TS EN 13501-1)	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	4 – 5	6,0 - 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.

