TEKNO®
construction chemicals

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.
- 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 apply.
- It does not roughen with water as the gypsum plasters.

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 plash and water drops remaining.
Mixing: 7,5 liters of clean and clear water at normal ambient temperature is added into a clean pot purged from all materials that could prevent adhesion. 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 min 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	
Appearance	White
Shelf Life	12 months in dry place in unopened packaging.
Package	20 kg kraft bag
Application Information	
Application Temperature	(+5°C) – (+35°C)
Mixing Ratio	8 lt water / 20 kg powder
Proccessability Period	Min. 3 hours
Waiting Period Between the Layers	2 – 3 hours
Putting Into Service Period	24 Hours
Application Thickness	0 – 2 mm
Performance Information	
Flexural Strength (28 days) (TS EN 12190)	≥ 2,5 N/mm²
Compressive Strength (28 days) (TS EN 12190)	≥ 10 N/mm²
Adhesion Strength (28 days) (TS EN 1542)	≥ 0,8 N/mm²
Reaction to Fire	A 1 (TS EN 13501-1)
Temperature Strength	(-20°C) – (+70°C)

Consumption Table

Teknorep 100 Flex (External Wall)	**Mixture density (kg / l)**	**1 mm / 1 m² powder consumption (kg)**	**Amount of Mixture Water (l)**
20 kg kraft bag	~1,70	0,5 – 1,0	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.