TEKNO®
construction chemicals

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Teknobond 850

Three-Component Epoxy Grout
(with high impact resistance)

TS EN 1504-3

Public Pos. No: 04.613/8e

Product Description

I 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/m² (for 1 mm thickness)
Shelf Life	12 months
Package	30 kg set
Application Information	
Pot Life	30 minutes
Application Temperature	(+5°C) - (+30°C)
Shore	D60 - 70
Initial Drying Time	24 Hours
Wear Resistance (A+B+C)	ASTM D 4060 CS10, 1000 DEV, 1000 GR 75 MG
Performance Information	
Compressive Strength	≥ 75 N /mm^2
Flexural Strength	≥ 30 N/mm² (TS EN 12190)
Bond Strength	> 3,5 N/mm² (Rupture from Concrete) / > 4 N/mm² (for steel)
Tensile Strength	> 30 Mpa

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.