

Cement Based Surface Smoothing and Repair Mortar

Description

It's a cement based, containing pozzolanic material, polymer and fiber reinforced, unifactorial, thixotropic, resistant to sulphate, high strength, and it's a repair mortar which provides smooth application on concrete surfaces.

EN 1504-3 CE Certificate.

Ministry of Environment and Urban Planning

Pos.No: 04.613 / 3a

Areas of Usage

- *Repairing and levelling horizontal and vertical failures of elements of reinforced concrete constructions.
- *To obtain a durable layer on exposed concretes.
- *To straighten concrete surfaces before waterproofing application.
- *Levelling of surfaces repaired with **eile TH 70**.

Features of Product

- *It has high compressive strength.
- *It is thixotropic. Therefore it provides great workableness overhead and vertical surfaces.
- *It's only mixed with water, applied with trowel.
- *It is non-corrosive.
- *It is resistant to freeze-thaw cycle.
- *It provides high adherence to concrete surfaces and reinforcements.
- *It is resistant to chlorine and sulphate attacks.

Application Procedure

Surface Preparation

The cement based surfaces should be durable, free from dust, carrying and clean. Residues such as oil, grease and paraffin which may reduce adherence should be cleaned. Holes deeper than 2 cm should be filled with **eile TH 70** repair mortar. The application surface should be saturated with water and there should be no free water on the surface.

Mixing

Recommended amount of water is poured into a clean bucket. **eile TH 60** is added into the bucket. It's mixed for 3-4 minutes with a low speed mixer until it gets homogenous mixture. It's allowed to stand for 4 minutes. And then it's mixed again for 30 seconds and the material is ready to use.

Mixture ratios

For 25 kg sack: 4,0-5,0 l water

For 1 kg powder product: 0,160- 0,200 l water

Mixture density: 1,7-1,8 gr/ cm³

Application Method

The mixture is applied on the surface which has been previously saturated with water with a trowel with the thickness of 1-4 mm. To obtain a smooth surface, after mortar is drained it water, sprinkle water on the surface with the help of plaster brush. Application is completed with steel trowel.

Consumption

For 1 mm thickness 1,5 kg/m²

Points to take into consideration

*It should be used within 45 minutes at 20 °C.

- * The ambient and floor temperature should be within below mentioned values since application floor and ambient influence hydration reaction of the cement.
- * No application is done in frozen, melting and very windy ambient within 24 hours.
- *The application surface should be protected from sun and wind for 24 hours.

Cleaning of the Tools

After application, the tools and equipment used should be cleaned with water. After the material is hardened, it can only be cleaned mechanically.

Package

25 kg kraft sack

Storage

It should be stored in unopened original package in a cool and dry place and stack maximum 10 packages on top of each other.

Shelf Life

Shelf life is 12 months from production date in storage conditions

Technical Specifications

Structure of the Material	Mineral Fillings, Fibre, Polymer and Pozzolan Reinforced Special Cement.
Colour	Grey
Compressive strength	$\geq 15 \text{ N/mm}^2$ (28 days)
Adherence Strength	$\geq 0,8 \text{ N/mm}^2$ (28 days)
Limited shrinking-expansion	$\geq 0,8 \text{ N/mm}^2$
Capillary water absorption	$\leq 0,5 \text{ kg.m}^{-2}.\text{h}^{-0,5}$
Through dry time (20 °C)	24 hours
Application Thickness	min. 1 mm max. 4 mm
Temperature of application surface	+5 °C - +30 °C
Usage Time (20 °C)	45 min. (+20 °C)
Full Curing Time (20 °C)	28 days (+20 °C)

* Typical values have been obtained as a result of experiments done at +23°C, 50% relative humidity, 4x4x16 cm mortar prism. The values may change due to the difference in site ambient. High temperatures shorten and low temperatures extend the durations

CE 1020
POMZA EKSPORT SAN. TİC. AŞ.-EİLE Ankara Asfaltı Belkahve Mevkii 476/A Kavaklıdere Köyü-Bornova-İzmir/ Türkiye 12 TS EN 1504-3 Concrete repair mortar without reinforcement for non-structural repairs
Compressive strength: R2 Bond strength: $\geq 0,8 \text{ N/mm}^2$ Reaction to Fire class: A1

Safety Recommendations: Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

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