

Cement Based Surface Smoothing and Repair Mortar

Description

Cement-based, fiber-reinforced, thixotropic, sulfate-resistant, high-strength repair mortar that provides a smooth finish on concrete surfaces.

EN 1504-3 CE Certificate.

Areas of Usage

- *Repair and leveling of surface irregularities in reinforced concrete structural elements, both horizontally and vertically.
- *Achieving a solid layer on raw concrete surfaces.
- *Leveling of concrete surfaces before waterproofing application.
- *Smoothing of surfaces repaired with **eile TH 70** product.

Features of Product

- *It has high compressive strength.
- *Due to its thixotropic properties, it provides excellent workability both overhead and vertically.
- *It is mixed only with water and applied with a trowel.
- *Non-corrosive.
- *Resistant to freeze-thaw cycles.
- *Provides high adhesion to concrete surfaces and reinforcement.
- *Resistant to chloride and sulfate attacks.

Application Procedure

Surface Preparation

The cement-based surfaces to be repaired must be solid, dust-free, load-bearing, and clean. Any residues such as oil, grease, rust, which may weaken surface adhesion, should be removed. Gaps deeper than 2 cm should be filled with TH 70 repair mortar. The application surface should be saturated with water, but there should be no free water on the surface during application.

Mixing

The recommended amount of water is poured into a clean mixing bucket. **eile TH 60** is slowly added to the mixing bucket. With the help of a low-speed mixer, it is mixed for approximately 3-4 minutes until a homogeneous mixture is obtained. The material is then rested for about 4 minutes, after which it is mixed again for about 30 seconds, and it becomes ready for 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 prepared mixture is applied to the pre-wetted surface with a trowel, achieving a thickness between 1-4 mm. To obtain a smooth surface, water is sprinkled onto the surface using a plasterer's brush after the mortar has absorbed water. The application is finished with a steel trowel in the desired style.

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 temperature of the surface and environment affects the hydration reaction of the cement. Therefore, the ambient and surface temperatures should be within the permitted temperature range.

* Application should not be done on surfaces that are frozen, thawing, or exposed to rain or frost 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 Bag

Storage: Unopened original packaging should be stored stacked up to a maximum of 10 layers in a cool and dry environment.

Shelf Life: Under the specified storage conditions and in unopened packaging, the shelf life is 12 months from the production date.

Technical Specifications

Structure of the MaterialMineral 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)

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TS EN 1504-3

Concrete repair mortar without reinforcement for
non-structural repairs

Compressive strength: R2

Bond strength: $\geq 0,8 \text{ N/mm}^2$ CONTROLLED SHRINKAGE EXPANSION : $\geq 0,8 \text{ N/mm}^2$

Reaction to Fire class: A1

* 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

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.

Responsibility: In case the recommendations and application conditions specified above are not conformed, the applications (misuse) do not fall under the responsibility of **POMZA EXPORT A.Ş., the producer of eile POMEX branded products**. The user is responsible for whether the product is used in accordance with its purpose, as well as the validity of application conditions and forms. **eile Pomex Construction Chemicals** does not accept any indemnity claim concerning the results, work accidents, direct or indirect damages or losses due to the misapplication of the products.

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