

Cement-Based Fiber-Reinforced Thixotropic Repair Mortar

Description

Cement-based, polymer and fiber-reinforced, thixotropic, high-strength structural repair mortar.

**TS EN 1504-3 TSE
EN 1504-3 CE CERTIFICATE.**

Areas of Usage

*Repair and surface leveling of high-strength concrete elements

*Surface corrections

*Repair of concrete damaged by corrosion of reinforcement bars, in conjunction with **SNS 804**

*It is used for filling and surface leveling applications prior to water insulation applications.

Features of Product

*High compressive strength

*Thixotropic properties

*Mixed with water only, easy to apply

*Provides strong adhesion to concrete and reinforcement

*Resistant to chloride and sulfate effects

Application Procedure

Surface Preparation

The cement-based surfaces should be durable, dust-free, and clean. Any residues such as oil, grease, and paraffin that may weaken adhesion must be removed. Rust on the reinforcement should be removed, and if necessary, new reinforcement should be added. If there is water flow on the surface, it should be plugged. The surface should be saturated with water, and there should be no free water on the floor during application.

Mixing

The recommended amount of water is poured into a clean mixing bucket. The material is slowly added to the mixing bucket. It is mixed with a low-speed mixer for about 3-4 minutes until a homogeneous mixture is obtained. After resting for about 4 minutes, it is stirred again for 30 seconds, and the material is ready for use.

Mixture ratios

For a 25 kg bag: 4.25-5 liters of water

Per 1 kg of powder: 0.170-0.200 liters of water

Mix Density: 1.9 g/cm³

Application Method

The prepared mixture is applied to the surface with a trowel, with a thickness ranging from 10 mm to 30 mm in a single layer. For thicker applications, the second layer is applied to the surface after the first layer has dried. To achieve surface smoothness, after the mortar has absorbed water, water is sprinkled onto the surface with a plasterer's brush, and the surface is completed with a steel trowel.

Consumption

17 kg/m² for a thickness of 10 mm

Points to take into consideration

***eile TH 70** should be used within 30 minutes at 20 °C.

*The temperature of the substrate and ambient conditions should be within the permitted temperature range as the hydration reaction of cement can be affected.

*For applications thicker than 30 mm, the second layer should be applied after the first layer has dried.

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 Material

Mineral Fillings, Fibre, Polymer and Pozzolan Reinforced Special Cement.

Colour

Grey

Compressive strength

> 25 N/mm² (28 days)

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TS EN 1504-3
Structural repair mortar

Compressive Strength: $\geq 45 \text{ N/mm}^2$

Adhesive Strength: $\geq 2 \text{ N/mm}^2$

Controlled Shrinkage Expansion: $\geq 2 \text{ N/mm}^2$

Reaction to Fire: 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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