

Cement Based Fiber Reinforced Thixotropic Structural Repair Mortar

Description

It's a cement based, polymer and fiber reinforced, pozzolanic added, high strength structural repair mortar.

TS EN 1504-3 TSE

EN 1504-3 CE CERTIFICATE.

Ministry of Environment and Urban Planning

Pos.No: 04.613 / 3b

Areas of Usage

*Repairing of surface failures of high resistant concrete elements and levelling surfaces

*Smoothing surfaces.

*It's used with **eile SNS 804** for repairing of concrete and reinforcement damaged wearing or reinforcement irons.

*It's used for waterproofing and high strength chamfer application and surface levelling applications.

Features of Product

*It has high compressive strength.

*It is thixotropic.

* It's only mixed with water, easy to apply.

* 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. The reinforcement rust should be removed and a new reinforcement should be added if necessary. If there is water course, it should be closed with a plug. 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. The material 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: 4,25-5 l water

For 1 kg powder product: 0,170-0,200 l water

Mixture density: 1,9 g/ cm³

Application Method

The mixture is applied on the surface as 10 mm and 30 mm thickness in one coat. For thicker applications, after the first coat is dried, the second coat is applied on the surface. 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 10 mm thickness 17 kg/m²

Points to take into consideration

***eile TH 70** 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.

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

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

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| Structure of the Material | Mineral Fillings, Fibre, Polymer and Pozzolan Reinforced Special Cement. |
| Colour | Grey |
| Compressive strength | $\geq 25 \text{ N/mm}^2$ (28 days) |
| Adherence Strength | $\geq 1,5 \text{ N/mm}^2$ (28 days) |
| Elasticity module (28 days) | $\geq 15 \text{ GPa}$ |
| Capillary water absorption | $\leq 0,5 \text{ kg.m}^{-2}.\text{h}^{-0,5}$ |
| Through dry time (20 °C) | 24 hours |
| Application Thickness | min. 10 mm max. 30 mm |
| Temperature of application surface | +5 °C - +30 °C |
| Usage Time (20 °C) | 30 minutes |
| Full Curing Time (20 °C) | 28 days |

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| POMZA EKSPORT SAN. TİC. AŞ.-EİLE Ankara Asfaltı Belkahve Mevkii 476/A Kavaklıdere Köyü-Bornova-İzmir/ Türkiye 12 TS EN 1504-3 Structural repair mortar |
| Compressive strength: R4 Bond strength: $\geq 1,5 \text{ N/mm}^2$ 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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