

Early High Strength Grout Mortar

Description

A cement-based, single-component, polymer-reinforced, self-leveling grout mortar that sets very quickly.

Certified to EN 1504-3 CE.

Ministry of Environment and Urbanization Unit Price
No: 04.379/D03

Areas of Use

- In areas that need to be opened to traffic immediately, such as for the repair and elevation of manhole covers
- In the installation of prefabricated concrete elements
- For fixing traffic signs
- For the repair of road and field concrete in areas exposed to vehicle or pedestrian traffic
- Used for the repair of cavities and cracks

Product Features

- Simply mix with water and pour into the mold
- Easy to apply
- Gains strength quickly
- Has high flow properties
- Provides strong adhesion to concrete and reinforcement
- Does not shrink

Application Procedure

Surface Preparation

Ensure that cement-based surfaces are solid, dust-free, load-bearing, and clean. Any residues such as oil, grease, and paraffin that may weaken adhesion should be removed. If there is water leakage on the surface, it should be sealed with a plug. The surface should be saturated with water, ensuring no free water remains during the application.

Mixing

The recommended amount of water is poured into a clean mixing bucket. The material is then slowly added to the water. Using a low-speed mixer, mix for approximately 3-4 minutes until a homogeneous mixture is achieved, making the material ready for use.

Mixing Ratios

- For a 25 kg bag: 3.5-4 liters of water
- For 1 kg of powder: 0.140-0.160 liters of water
- Mixing Density: 1.9-2.1 g/cm³

Application Method

The ready-to-use material should be poured onto the surface at a thickness of 10-40 mm.

Consumption

For 10 mm thickness: 17-18 kg/m²

Points to Consider

- Must be used within 7 minutes at 20°C.
- The ambient and surface temperatures must be within the permissible range as they will affect the hydration reaction of the cement.
- Do not add any foreign materials to the prepared mixture.

Cleaning of Tools

Tools and equipment should be cleaned with water after application. Once the material has hardened, it can only be removed mechanically from the surface.

Packaging

25 kg kraft bag

Storage

Store in its unopened original packaging in a cool and dry place, stacked no higher than 10 layers.

Shelf Life

12 months from the production date under the specified storage conditions.

Technical Specifications

Structure of the Material	Mineral Fillers and Polymer Reinforced Special Cement.
Colour	Grey
Compressive Strength	10-15 N/mm ² (1 hour) 20-25 N/mm ² (1 day) 40-45 N/mm ² (28 days)
Application Thickness	min. 10 mm max. 40 mm
Spreading	≥ 25 cm
Set starting	10 min. (+20 °C)
Temperature of Application Floor	+5 °C - +30 °C
Usage Time	7 min. (+20 OC)
Through dry time	1 hour (+20 OC)
Full Curing Time	28 days

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POMZA EKSPORT SAN. TİC. AŞ.-EİLE Menderes -İzmir/ Türkiye 24 TS EN 1504-3 STRUCTURAL REPAIR MORTAL
Compressive Strength: R4 Adhesive bond strength: ≥ 2 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.

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EIP-TDS-007-Eile GROUT 60 C-Rev0-eng