

Repair Mortar for Superficial Repairs

Description

It's a cement based, polymer reinforced, unifactorial, thixotropic, high strength, repair mortar which provides smoothness on exposed concrete surfaces.

EN 1504- 3 CE Certificate.

Areas of Usage

- *In the repairing of exposed concrete surfaces.
- *In the repairing of edge and corner.
- *In the repairing of defective surfaces before ceramic coating.
- *It is used indoors as a thin layer plaster.

Features of the Product:

- *It provides adherence on concrete surfaces.
- *It has high pressure strength.
- *It can be used on overhead and vertical surfaces due to its thixotropic feature.
- *It's only mixed with water, applied with trowel.
- *It is not corrosive.
- *It is resistant to freeze-thaw cycle.

Application Procedure

Surface Preparation

Care should be taken that cement based surfaces to be repaired should be durable, bearer, dust-free and clean. Oil, grease, rust and paraffin residues which may reduce adherence should be cleaned. Gaps with depth more than 2 cm should be filled with **eile TH 70** repair mortar. The application surface should be saturated with water and care should be taken that there is no free water on the surface.

Mixing

The recommended clean water amount is poured into mixture bucket. **eile AK 8** is added into this bucket slowly. It is mixed with a low speed mixer approximately 3-4 minutes until a homogeneous mixture is obtained. It's allowed to stand for 5 minutes. Then it's mixed 30 seconds and the mixture is ready to use.

Mixture Ratios

For 25 kg sack: 4,0-5,0 litres water
For 1 kg powder: 0,160-0,200 litres water
Mixture density: 1,7-1,8 gr/ cm³

Application Method

The prepared mixture is applied with a trowel as 1-4 mm thickness on the waterlogged surface before. After the mortar is dried, water is sprinkled on mortar surface with plasterer brush; surface is smoothed with a steel trowel.

Consumption

1,3-1,5 kg/m² for 1 mm thickness.

Points to take into Consideration

- *The exposed concrete repair mortar should be used within 30 minutes at 20 °C temperature.
- *Operating and setting times of cement based systems are influenced by temperature and moisture. Cement-water reaction slows down at low temperatures and operating time is extended. Operating time is shortened at low temperatures due to rapid reaction. The change of hydration speed depending on ambient and floor temperature causes changes in abovementioned times. Therefore application should be done within recommended period of time.
- *It should not be applied on surfaces which are frozen, melting or risk of rain or frost within 24 hours.
- *The surface on which is applied **eile AK 8** should be protected from sun and wind for 24 hours.

Cleaning of 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

12 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 abovementioned storage conditions.

Technical Specifications

Structure of the Material	:Mineral Fillers, Polymer Reinforced Special Cement
Colour	:Grey-white
Compressive Strength	: $\geq 15 \text{ N/mm}^2$ (28 days)
Bond Strength	: $\geq 1,0 \text{ N/mm}^2$ (28 days)
Application Thickness	:min. 1 mm max. 4 mm
Temperature of the Application Floor	: $+5 \text{ }^\circ\text{C} - +30 \text{ }^\circ\text{C}$
Exposure Time	:30 minutes ($+20 \text{ }^\circ\text{C}$)
Full Curing Time	:28 days ($+20 \text{ }^\circ\text{C}$)
Maturation time	:5 minutes
Application Thickness	:min. 1 mm max. 4 mm

*Typical values have been obtained as a result of experiments done at $+23^\circ\text{C}$, 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.

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12
TS EN 1504-3
Nonstructural concrete repair product

Compressive Strength: R2
Bond strength: $\geq 0,8 \text{ N/mm}^2$
Reaction to fire: 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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