

Flexcem FR60

Polymer-modified, fiber-reinforced, cement-based repair mortar

DESCRIPTION

Flexcem FR60 is a pre-mixed, polymer-modified, fiber-reinforced cement mortar, without corrosive substances, thus suitable for exterior and interior use. It offers:

- Abrasion resistance
- Very good bonding to the substrate.
- Water impermeability.
- Simplification of works.

It is classified as a PCC R3 mortar type for concrete repairs, according to EN 1504-3. Certificate Nr: 2032-CPR-10.11.

Flexural Strength, 28 days, at 27°C	>7 MPa
Free linear Expansion, (ASTM C 827)	0.2%
Adhesion Strength, 28 days at 27°C	2.0 MPa
Coefficient of Thermal Expansion, per °C	11-12x10 ⁻⁶ (Similar to Concrete)

FIELDS OF APPLICATIONS

Flexcem FR60 is a cementitious repair compound which is used to reinstate damaged and deteriorated concrete for structural and general repairs. This product is suitable where above average corrosion and carbonation resistance is required.

Flexcem FR60 can be applied in thickness from 10 mm to 40 mm in vertical and 25 mm in overhead situation. It is suitable to apply by hand trowel or by special mortar spray machine.

TECHNICAL DATA

Form	cementitious mortar
Colour	grey
Water demand	3.25-3.75 l/25kg bag
Application temperature	from +5°C to +35°C
Pot life	~30 mins
Bulk Density	
• Dry Mortar	1.35 +/- 0.10 kg/l
• Fresh Mortar	2.10 +/- 0.10 kg/l
Compressive strength (ASTM C 579 – 01)	
• After 1 day	>20 MPa
• After 7 days	>50 MPa
• After 28 days	>60 Mpa

DIRECTIONS FOR USE

Substrate Preparation

The substrate should be clean, free of dust, oily, grease or loose materials etc. Before applying **Flexcem FR60**, the substrate should be dampened. Ensure that no free-standing water is present on surfaces of foundations or in bolt holes or on the concrete surfaces which to be repaired / encased before applying **Flexcem FR60**.

Application

Flexcem FR60 is added into the water under continuous stirring of 1-2 minutes, until the mixture formed has the desired workability. The product is applied with a trowel, as usual. If the thickness is more than 40mm, another layer shall be applied after 24 hours from the application time of previous layer.

Curing

Curing is very essential for **Flexcem FR60**. Curing shall be started within 20- 24 hours depending on climatic conditions. Curing shall be done by sprinkling of water (4-6times per day for 7-10 days) for vertical and ceiling surfaces. Good quality curing compound can also be used where water curing is not possible..



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COVERAGE

Approx. 1.65 kg/m²/mm of layer thickness.

REMARKS

- Temperature during the application should be at least +5°C.
- During the dry season, **Flexcem FR60** should be dampened after being applied, to avoid water loss, due to high temperatures.
- The product contains cement, which reacts with water forming alkaline solutions and is thus classified as irritant.

PACKAGING

Flexcem FR60 is supplied in 25 kg HDPE bags

STORAGE & SHELF-LIFE

12 months after manufacturing date in original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention. The product is non-flammable.

NOTES

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