

EPOMORTAR FC

Epoxy Mortar Fair Coat

Composition and Application Field

EPOMORTAR FC is a two component solvent free epoxy mortar for filling pin holes, cracks and repairing irregularities of concrete. EPOMORTAR FC system has high bonding strength with concrete and steel structures. **EPOMORTAR FC** is an ideal material for repairing and bedding in a single operation with one material. It is used wherever a high degree of compressive strength, chemical resistance and excellent mechanical properties are required..

Advantages

- Smooth finish.
- Easy-on application.
- High ultimate compressive strength.
- Excellent chemical resistance.
- Impermeable when immersed in water.
- Primerless.
- Non-toxic.
- Excellent adhesion.
- Suitable for vertical and horizontal applications for interior and exterior locations.
- Available in a range of attractive colors.
- Low VOC.

Surface Preparation

The surface should be dry (moisture < 5%) and any dust should be removed by industrial vacuum. In order to repair damaged area, cracks and honeycombs, laitance, dust and contaminants should be removed. Prior to application, **EPOMORTAR FC** system should be stored under cover and protected from extremes of temperatures which may cause inconsistent workability and cure times for the mixed material. Ideally, at least 24 hours before mixing, **EPOMORTAR FC** system should be maintained at approximately 25°C. During application in cold conditions, correct conditioning can help, but application should be halted if the ambient temperature is likely to fall below 10°C. The substrate or base slab is likely to be considerably colder than the surrounding air temperature. Pot life of the mixed material will be affected by ambient temperature. New concrete floors should be at least 28 days and have a moisture content of less than 5%. Excessive laitance should be removed by mechanical method. Dust and other debris should be removed by vacuum cleaning. Old concrete floors damaged areas or surface irregularities should be repaired by using **EPOMORTAR FC** two component fast curing epoxy mortar (Refer to TDS). Steel surface should be grit blasted then clean by solvent and kept to dry. Epoxy Screeds high spots or trowel marks should be rubbed down and remove dust and debris by vacuum cleaning then repair it by using EPOSCREEN 10 three component epoxy screed (Refer to TDS.)

Mixing

Part A (Grey) and part B (Off white) should be mixed together (mix ratio 1:1 by volume) in a suitable container until uniform color is obtained. Use of heavy duty slow speed power drill with a jiffy mixing blade if there is separation on part (B). Mix the two components by using scraper or steel spatula.

Application Method

Apply **EPOMORTAR FC** on the bed and repaired areas with a spatula, scraper or palette knife above the existing finished level. Allow **EPOMORTAR FC** to dry to touch for approximately 4 - 6 hours depending on ambient temperature. Sand down the dried **EPOMORTAR FC** to achieve a flush overall surface.

Curing

Good curing is essential for resin based materials to ensure specified performance. Installation using **EPOMORTAR FC** systems can be opened to foot traffic after approximately 24 hours at 25°C. Complete cure is achieved after 72 hours at 25°.

Coverage

Dependence on the irregularity of substrate.

Cleaning

Tools and equipment can be cleaned immediately by using THINNERCOAT 10 organic solvent.

Package

10 kg pack (including part A and part B).

Technical Properties

Density	1750 ± 10 kg/m ³
Pot Life	50 mins at 20°C 30 mins at 30°C
Ultimate Compressive Strength (BS 6319 Part 2)	85 N/mm ²
Flexural Strength (BS 6319 Part 3)	26 N/mm ²
Tensile Strength (BS 6319 Part 7)	21 N/mm ²
Minimum Service Temp.	10°C
Maximum Service Temp.	60°C
Chemical Resistance :	
□ Acids: Hydrochloric Acid 50% Nitric Acid 25% Sulfuric Acid 50% Phosphoric Acid 50 % Acetic Acid 10% Lactic Acid 10% Citric Acid	Excellent Excellent Excellent Excellent Excellent Excellent Excellent
□ Alkali: Sodium Hydroxide Ammonia (880) 10 %	Excellent Excellent
□ Solvents: Petrol Kerosene Butanol Hydrol	Excellent Excellent Very Good