



# EPOMORTAR FC

## Technical Data Sheet

### 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 the concrete. **EPOMORTAR FC** system has a 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.

#### Uses

Typical applications include the following:

- Cracks of concrete surface up to 3 mm width.
- Bedding Anchors.
- Floor repairing.
- Industrial kitchens and catering facilities.
- Electrical substations and plant rooms.
- Swimming pools and leisure facilities.
- Heavy duty workshops, garages and service facilities.
- Bottling plants and breweries.

#### 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.
- Available in a range of attractive colors. Low VOC.

#### Surface Preparation

The surface should be dry (moisture < 5%) and 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.

In cold conditions, the 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 methods. 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 cleaned by solvent and kept to dry.

**Epoxy Screeds** high spots or trowel marks should be rubbed down. Dust and debris should be removed by vacuum cleaning then repaired by using **EPOSCREED 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 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 the ambient temperature. Sand down the dried **EPOMORTAR FC** to achieve a flush overall surface.

#### Coverage

Depends on the irregularity of substrate.

#### Cleaning

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

#### Package

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

#### Technical Properties

Density	1750 + 10 kg/m <sup>3</sup>
Pot Life	50mins. at 20°C 30 mins. at 30°C
Ultimate Compressive Strength (BS 6319 Part 2)	85 N/mm <sup>2</sup>
Flexural Strength (BS 6319 Part 3)	26 N/mm <sup>2</sup>
Tensile Strength (BS 6319 Part 7)	21 N/mm <sup>2</sup>
Minimum Service Temp.	10°C
Maximum Service Temp.	60°C
Chemical Resistance:	
<ul style="list-style-type: none"> <li>• Acids: Hydrochloric Acid 50%</li> <li>Nitric Acid 25%</li> <li>Sulfuric Acid 50%</li> <li>Phosphoric Acid 50%</li> <li>Acetic Acid 10%</li> <li>Lactic Acid 10%</li> <li>Citric Acid</li> </ul>	Excellent Excellent Excellent Excellent Excellent Excellent Excellent
<ul style="list-style-type: none"> <li>• Alkali: Sodium Hydroxide</li> <li>Ammonia (880) 10%</li> </ul>	Excellent Excellent Excellent
<ul style="list-style-type: none"> <li>• Solvents: Petrol</li> <li>Kerosene</li> <li>Butanol</li> <li>Hydrol</li> </ul>	Excellent Excellent Excellent Excellent

#### Storage and Shelf Life

Product should be stored at 25°C in dry conditions. 18 months in tightly closed container.

#### Flammability

**EPOMORTAR FC** is nonflammable material.

**THINERCOAT 10** is flammable material.

#### Safety Precaution

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray. MSDS is available on request for the safe handling of this product.