

## EPOMORTAR FC

### Epoxy Mortar Fair Coat

#### DESCRIPTION

**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.

#### USE

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 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

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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 **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**

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 °C.

#### **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).

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Date Revised: 06<sup>th</sup> July 2015

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#### TECHNICAL PROPERTIES

Density	1750 ± 10 kg/m <sup>3</sup>
Pot Life	50 mins 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 style="padding-left: 20px;">Nitric Acid 25%</li> <li style="padding-left: 20px;">Sulfuric Acid 50%</li> <li style="padding-left: 20px;">Phosphoric Acid 50 %</li> <li style="padding-left: 20px;">Acetic Acid 10%</li> <li style="padding-left: 20px;">Lactic Acid 10%</li> <li style="padding-left: 20px;">Citric Acid</li> </ul>	Excellent Excellent Excellent Excellent Excellent Excellent Excellent
<ul style="list-style-type: none"> <li>• Alkali: Sodium Hydroxide</li> <li style="padding-left: 20px;">Ammonia (880) 10 %</li> </ul>	Excellent Excellent
<ul style="list-style-type: none"> <li>• Solvents: Petrol</li> <li style="padding-left: 20px;">Kerosene</li> <li style="padding-left: 20px;">Butanol</li> <li style="padding-left: 20px;">Hydrol</li> </ul>	Excellent Excellent Very Good Good

#### STORAGE

Product should be stored at 25°C in dry conditions and keeping away from source of flame.

#### FLAMMABILITY

**EPOMORTAR FC** is nonflammable material. **THINERCOAT 10** is flammable, so do not expose to naked flames during application.

#### SHELF LIFE

12 months in tightly closed container.

#### HEALTHY AND SAFETY

The application of material should be in good ventilation and avoid inhalation of the vapors. Use goggles and vinyl gloves. In case of contact with eyes, rinse immediately with plenty of clean water, do not use solvent and seek medical attention immediately. The product complies with environmental and occupational health & safety standards ISO 14001 and OHSAS 18001.