

Cicomortar®FC

Thin Epoxy Fairing Coat Paste

DESCRIPTION

Cicomortar®FC is a three component, non-sag, epoxy resin based fairing coat. It is designed to be highly resistant to the most known industrial chemicals and to provide fast and permanent repairs to deteriorating concrete surfaces. Cicomortar®FC is designed to be used for thin layers from 0.5 mm up to 4 mm thick layer in one go. It can be spread by steel trowels. Cicomortar®FC has a non-porous smooth surface finish.

USES

- Concrete surface fairing.
- Concrete and ductile pipe fine lining and repair.
- Fixing slip and anti-corrosion bricks to concrete.
- Fine repairs of concrete structural sections up to 4 mm thick application.
- Cracks and honeycombs filling.

ADVANTAGES

- Solvent-free.
- High compressive strength.
- Abrasion and chemical resistance.
- Multipurpose.
- Non-sag, non-porous and non-shrinking.
- Long pot life.
- Very sticky; wide thickness applications.
- High mechanical characteristics.

PACKAGING

5 kg set.

SHELF LIFE & STORAGE

12 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 5°C to 40°C.

TECHNICAL PROPERTIES

Form	Grey Sticky Paste
Density @ 25°C	1.59±0.02 kg/l
Solid content	100%
Pot Life @ 25°C	50±5 min.
Drying time @ 25°C	4 hr.±10 min.
Coverage	1.56 Kg/m²@1 mm DFT

MECHANICAL CHARACTERISTICS

Compressive Strength (ASTM C579) @14 days	76±2 N/mm²
Flexural Strength (ASTM C580) @14 days	26±0.25 N/mm²
Tensile Strength (ASTM C307) @14 days	14±0.25 N/mm²
Abrasion Resist. (ASTM D 4060) mg/1000 cycles (C10 wheels)	
Bond to concrete (ASTM D7234) @14 days (failure in concrete)	> 2.0 N/mm²

CHEMICAL RESISTANCE

The fully cured Cicomortar®FC is resistant to the following chemicals:

- Saltwater
- Benzene
- Kerosene
- Acetic acid 20%
- Ammonia 10%
- Chlorine
- Citric acid 20%
- Hydrochloric acid (HCl) 10%
- Nitric acid (HNO₃) 20%
- Lactic acid 20%
- Soda solution (saturated) (Na₂CO₃)
- Sulphuric acid (H₂SO₄) 10%

- Sodium hydroxide 40g/L
- Phosphoric acid (H₃PO₄) 20%
- Formic acid 10%
- Alum at 60°C

APPLICATION INSTRUCTIONS

Surface Preparation

All surfaces to be treated must be clean, dry, and free from dust, rust, and laitance. Dense concrete should be abraded followed by surface cleaning using a suitable brush. Laitance, oil, and grease could be removed by either using Cicosurface®Degreaser, sandblasting, or steam cleaning. All steel substrates should be free from dirt, oil, and grease and blast cleaned to Sa 2½ according to EN ISO 12944, part 4.

Mixing

Stir the contents of component A separately first, then add component B to component A in its tin and mix them well using mid speed drill for one minute. After having the resin mixed, add component C slowly while mixing with a powerful slow speed shear mixer until a uniform consistency is achieved.

Application

Apply the mixed Cicomortar®FC to the substrate with a spatula or a trowel as per the required application space. Layers from 0.5 mm and up to 4 mm thickness may be built in one go. Compact Cicomortar®FC tightly to ensure maximum substrate adhesion and density. The finished surface may be smoothed using a paintbrush or trowel dipped in Cicosolvent®. If Cicomortar®FC is used as an adhesive for bricks, tiles, etc., the fixed object should be gently pressed to the substrate to ensure high adhesion. In case Cicomortar®FC is required to be applied in layers thicker than 4 mm, layers should be either scratched or broadcasted by coarse sand to achieve a good mechanical key in between layers.

LIMITATIONS

Cicomortar®FC will not cure adequately below 10°C. In cold weather keep the epoxy resin components in a warm environment prior to use. Bulk mixing of epoxy resins can lead to self-heating. Care should be exercised to limit the conditions whereby overheating may occur.

CLEANING

Tools contaminated with Cicomortar®FC can be cleaned using Cicosolvent®. Hardened material can be removed by mechanical means.

PRECAUTIONS

Health And Safety

Cicomortar®FC should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. If swallowed, seek medical attention immediately, do not induce vomiting.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.



Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.