

CIKOMortar FC

Smart Chemical Solutions



High build Epoxy Resin Based Mortar and fairing coat

Description

CIKOMortar FC is a two component epoxy resin based resurfacing compound to repair precast concrete items, cracks, deep holes worn and eroded slabs.

CIKOMortar FC is suitable to fill and seal cavities and cracks in structural components up to 4 mm wide.

CIKOMortar FC is based on epoxy cured with a special grade of hardener. It offers excellent bonding properties to wide range of substrates.

Properties

- Two components thixotropic, solvent free epoxy resin, graded filler and thixotropic agents.
- Resurfacing materials for horizontal, vertical and overhead applications.
- Re-profiling up to 30 mm thickness
- Re-profiling up to 60 mm thickness through addition 1:1 by mass either silica or dune sand.
- Exhibits good wear and abrasion resistance.
- Resistance to impact load.
- Provides high strength and non-sag properties.
- Resistance to wide range of aggressive chemicals.
- Withstands dynamic and static heavy loads.

Application area

CIKOMortar FC acts as a resurfacing material suitable for:

- Bedding and gap filling applications in concrete repair, manholes, precast, etc.
- Floor and wall resurfacing before application of epoxy or polyurethane range of coatings.
- Crack and holes filling in concrete.

Physical properties

Form	Two component system Part-A : Viscous Paste Part-B : Viscous paste
Solid Content	% 100
Colour	Grey in general
Mixing ratio	Pre-weighed packs
Pot life @ 25 °C @ 35 °C	≥ 90 min Approx. 45 min
Final cure	7 days
Over coating time @ 25 °C	18 to 24 hours
Compressive Strength @ 7 days ASTM C579	>60 MPa
Pull off Bond strength ASTM D4541	>2.5 Mpa

Coverage / Yield

4.0 Liters kit will cover 4 m² at 1 mm thickness.

Note: The coverage depends on the substrate condition and finish. Consult CIKO technical service department for further guidance.

Chemical resistance

CIKOMortar FC is resistant to a wide range of chemicals.

Specific data is available on request. Resistance to spillages includes:

- Dilute mineral acids
- Hydraulic oil & mineral solvents
- Bleach
- Sodium chloride
- Fats & vegetable oils
- Kerosene, Petrol
- Lactic acid 5%

Application instructions

Surface preparation

New concrete substrate:

The new concrete substrate should complete the process of curing and should have a dry surface. The surface should be prepared using mechanical scrubbers or hand grinder to remove loose and un-bonded particles.

Old concrete substrate:

All contamination such as oil / chemical spillage or pot holes should be treated. The surface should be prepared using mechanical scrubbers to remove loose and un-bonded particles.

Mixing

The base [Part-A] and hardener [Part-B] components of CIKOMortar FC should be mixed thoroughly using a slow speed drill-paddle assembly for two to three minutes and ensure a homogenous mix.

It is applicable to mix 1:1 by mass of oven dried dune sand, OPC powder or silica sand as a filler to achieve the desirable consistency for applications requiring bedding thicknesses between 30mm and 60 mm.

Application

Properly mixed materials should be spread over the cleaned surface using a trowel or putty blade maintaining the required thickness and levelling.

Precautions

- CIKOMortar FC should not be applied at temperatures below 10 °C.
- The substrate should be clean and dry.

Packaging

4.0 liters kit consisting part A and B.

Shelf life

CIKOMortar FC has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOMortar FC should be stored under enclosed shaded area at temperatures between 10 and 40°C.

Health & safety

CIKOMortar FC should not come in contact with eyes or be swallowed. Ensure adequate Ventilation and avoid inhalation of vapors. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Adhesives and bonding agent
- Concrete repair materials
- Protective coating
- Joint Sealants
- Moulding compounds