

# CIKOpoxy M20

## Vertical and overhead epoxy resin based repair material

### Description

CIKOpoxy M20 is a three component epoxy resin based repair system on concrete and other suitable substrates for thick bed repair applications.

CIKOpoxy M20 is based liquid epoxy cured with a special grade of hardener. It offers an easy workable mortar that can be applied from 5mm to 20mm.

### Properties

- Three component epoxy based repair system.
- Exhibits good wear and abrasion resistance.
- Provides seamless monolithic surface.
- Resistance to wide range of chemicals.
- Can withstand dynamic and static loads.

### Application area

CIKOpoxy M20 is a repair material that is suitable to use both in industrial and commercial segments such as,

- Beams and columns repair.
- Warehouse floors and food storage areas.
- Dairies and chemical plants.
- Engineering work shops.
- Marine structures.
- Chemical and water storage tanks.

### Physical properties

Form	3 component system Part-A & B : Liquid Past-C : Powder
Colour	Grey in general
Mixing ratio	Pre-weighed packs
Pot life @ 25 °C	30-40 minutes
Tack free	5 hours
Final cure	7 days
Allowable foot traffic	After 24 hours

Compressive strength ASTM C 579	>80 N / mm <sup>2</sup>
Flexural Strength	>14 N/mm <sup>2</sup>
Tensile Strength	>7 N/mm <sup>2</sup>

### Chemical resistance

CIKOpoxy M20 is resistant to a wide range of chemicals. Specific data is available on request. Resistance to occasional spillages includes,

- Diluted acids
  - Sulphuric acid
  - Hydrochloric acid
  - Acetic acid
  - Lactic acid
- Diluted alkalis
  - Sodium hydroxide
  - Ammonia solution
- Toluene
- Petrol
- Kerosene
- Hydraulic oil
- Vegetable oils
- Used sump oil
- Sodium chloride

### Coverage

CIKOpoxy M20 will provide coverage of 2.5m<sup>2</sup> per pack of 25 kg @ 5mm thick.

### 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 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.

### Application of repair material

The base [Part-A] and hardener component [Part-B] of CIKOpoxy M20 should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for two to three minutes and ensure a homogenous mix. Dispense the third component [Part-C] slowly into the mix and mixing should be continued for further few minutes until a homogenous mix and colour is obtained.

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

### Precautions

- CIKOpoxy M20 should not be applied at temperatures below 10 °C.
- The substrate receiving CIKOpoxy M20 shall have moisture content less than 4%.

### Packaging

CIKOpoxy M20 is available in 25 kg packs consisting of Part-A, B & C.

### Shelf life

CIKOpoxy M20 has a shelf life of 12 months if stored in accordance with manufacturer instructions.

### Storage

CIKOpoxy M20 should be stored under enclosed shaded area at temperatures between 5 to 35°C.

### Health & safety

CIKOpoxy M20 should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. 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
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries