

# CIKOpoxy Floor SDX

## Epoxy resin based heavy duty floor screed & resurfacing material

### Description

CIKOpoxy Floor SDX is an epoxy based three component floor screed system for concrete and other suitable substrates.

CIKOpoxy Floor SDX is based on liquid epoxy cured with special grade of hardener and reinforced with graded fillers. It offers a seamless tough floor screed that can be applied to a thickness from 2 - 40mm.

### Properties

- Three component epoxy based screed and resurfacing system.
- Exhibits good wear and abrasion resistance.
- Produce a seamless floor.
- Resistance to wide range of chemicals.
- Can withstand heavy dynamic and static loads.

### Application area

CIKOpoxy Floor SDX as floor screed is suitable to use both in industrial and commercial segments such as,

- Warehouse floors and food storage areas.
- Dairies and chemical plants.
- Engineering work shops.
- Walkways, loading bays parking lots.
- Production and storage areas.

### Physical properties

|              |  |
|--------------|--|
| Form         | 3 component system<br>Part-A & B : Liquid<br>Part-C : Powder |
| Colour       | Standard colours   |
| Mixing ratio | Pre-weighed packs  |

|                                   |                         |
|-----------------------------------|-------------------------|
| Pot life @ 25 °C                  | 40-60 minutes           |
| Final cure                        | 7 days                  |
| Foot traffic                      | After 24 hours          |
| Compressive strength<br>BS 6319-2 | >90 N/mm <sup>2</sup>   |
| Flexural Strength                 | >25 N / mm <sup>2</sup> |
| Slip Resistance<br>BS EN14231     | >90 USRV                |
| Abrasion resistance<br>BS EN 1341 | <20mm                   |
| Water Penetration<br>BS EN 12390  | NIL                     |
| VOC                               | <10g/l                  |

### Chemical resistance

CIKOpoxy Floor SDX is resistant to a wide range of chemicals. Specific data is available on request. Resistance to occasional spillage 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 Floor SDX will provide coverage 4.5 to 5kg/m<sup>2</sup> at 2mm thickness.

Note : The coverage depends on the floor condition and finish. Consult CIKO technical service department for assistance.

## Application instructions

### Surface preparation

The concrete surface should be free from dust and loose particles. All contamination should be treated well before application of primer.

### Application

#### Priming

CIKOpoxy Prim11, a two component epoxy based primer shall be used for priming the substrate. The base

[Part-A] and hardener [Part-B] components of CIKOpoxy Prim11 should be mixed thoroughly using a heavy duty, slow speed drill paddle assembly for three to five minutes and ensure a homogenous mix is obtained.

Application of primer should be carried out as per the respective technical data sheet. The screed should be applied on the primer when it is wet or in tacky stage.

#### Application of epoxy screed

The base component [Part-A] of CIKOpoxy Floor SDX should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly for two minutes and ensure that a homogenous mix with uniform colour is obtained. Transfer the mixed base component [Part-A] completely to a suitable container that can hold a volume of minimum 20 lts.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and mix well to homogeneity. Add the component Part-C to the properly mixed Part-A & Part-B and mix well to obtain a homogenous mass.

Properly mixed materials should be spread over the clean primed surface using a trowel and aluminium bar/float maintaining the required thickness. CIKOsol shall be used for cleaning the aluminium float as required. The screed should be left for 12 – 24 hours curing, depending on the prevailing ambient conditions.

## Precautions

Prior application of primer and CIKOpoxy Floor SDX, ensure that

- Moisture content of the substrate is less than 4% [for priming only].
- Ambient temperature is between 10 – 45°C.
- Substrate temperature is between 10 – 35°C.
- Relative humidity is below 75%.

## Packaging

CIKOpoxy Floor SDX is available in 27 kg kits consisting of Part-A, B & C.

## Shelf life

CIKOpoxy Floor SDX has a shelf life of 12 months if stored in accordance with CIKO instructions.

## Storage

CIKOpoxy Floor SDX should be stored under enclosed shaded area at temperatures between 5 – 35°C.

## Health & safety

CIKOpoxy Floor SDX 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

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control

