

# CIKOpoxy Floor SD

## High performance epoxy resin based floor screed

### Description

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

CIKOpoxy Floor SD 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 2mm to 5mm in one layer.

### Properties

- Three component epoxy based screed system.
- Exhibits good wear and abrasion resistance.
- Seamless and easy to clean and maintain hygienic floor.
- Resistance to wide range of chemicals.
- Can withstand dynamic and static heavy loads.

### Application area

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

- Hospitals and laboratories.
- Warehouse floors and food storage areas.
- Dairies and chemical plants.
- Engineering work shops.
- Walkways and loading bays
- Production and storage areas.

### Physical properties

Form	3 component system Part-A & B : Liquid Part-C : Powder
Colour	Standard colours
Mixing ratio	Pre-weighed packs
Pot life @ 25 °C	30-40 minutes

Tack free	Approx. 5 hours
Final cure	7 days
Foot traffic	After 24 hours
Compressive strength BS 6319-2	>85 N/mm <sup>2</sup>
Flexural Strength	>20 N / mm <sup>2</sup>
Tensile Strength	>14 N / mm <sup>2</sup>
Water Penetration BS EN 12390	NIL
Shore A Hardness ASTM D 2240-05	95
VOC	<10g/l

### Chemical resistance

CIKOpoxy Floor SD is resistant to a wide range of chemicals. Specific data is available on request. Resistance to 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 SD will provide coverage of 2.5m<sup>2</sup> per kit of 25 kg at 5mm 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. Allow the primer to dry for 12 -24 hours depending on the prevailing ambient conditions.

### Application of epoxy screed

The base component [Part-A] of CIKOpoxy Floor SD 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 powder 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 dry and clean primed surface using a notched trowel maintaining the required thickness. Immediately spike the applied surface using spike rollers to release entrapped air in the material to obtain a uniform, smooth and even finish. The coated surface should be left for 12 – 24 hours curing, depending on the prevailing ambient conditions.

### Precautions

Prior application of primer and CIKOpoxy Floor SD, ensure that

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

## Packaging

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

## Shelf life

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

## Storage

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

## Health & safety

CIKOpoxy Floor SD should not come in contact with the eyes. It should not also 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.*

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- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
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- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries