

# CIKOPOXY FLOOR SL4000

## Epoxy based, solvent-free self-levelling floor-top system

### Description

CIKOpoxy Floor SL4000 is a solvent-free epoxy self-levelling multi component floor-top system recommended for concrete and other suitable substrates.

CIKOpoxy Floor SL4000 is based on liquid epoxy resin cured with a special grade of hardener. It offers seamless floor having a thickness of 3-6 mm. It provides a smooth, hygienic floor with excellent chemical resistance.

### Properties

- Flowable consistency for self-levelling application.
- Pre-weight multi component epoxy based system
- Easy to apply
- Exhibits good wear and abrasion resistance
- Seamless finish; easy to clean and maintain hygienic.
- Anti-bacterial: it will not support the growth of bacteria.
- Resistance to general chemicals
- Excellent durability and impact resistance

### Application area

CIKOpoxy Floor SL4000 as floor topping is suitable to use both in industrial and commercial segments such as,

- Hospitals and laboratories.
- Warehouse floors and food storage areas.
- Kitchens
- Utility services building floors.
- Pharmaceutical industries.
- Light engineering work shops.
- Walkways and loading bays.
- Production and storage areas.
- Electricity substation floors.

### 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	>45 minutes
Surface dry	3-4 hours
Tack free	Approx. 8 hours
Foot traffic	After 18 to 24 hours
Vehicular traffic	After 48 hours
Final cure	7 days
Compressive strength ASTM C579	>60 MPa
Flexural Strength ASTM C580	>20 MPa
Tensile Strength ASTM D412	>10 MPa
Shore A Hardness ASTM D4420	95-100
Shore D Hardness ASTM D4420	80-85
Pull off bond Strength ASTM D 7234	>2.5 Mpa
Abrasion wear Index ASTM C 501	<0.1%
VOC	<10g/l

### Chemical resistance

CIKOpoxy Floor SL4000 is resistant to a wide range of chemicals. Specific data is available on request. Resistance to occasional spillages include:

- Diluted acids
  - Sulphuric acid
  - Hydrochloric acid
  - Acetic acid
  - Lactic acid
- Diluted alkalis: Sodium hydroxide, Ammonia solution

- Toluene
- Petrol
- Kerosene
- Hydraulic oil
- Vegetable oils
- Sodium chloride

### Coverage

CIKOpoxly Floor SL4000 will provide coverage of 4m<sup>2</sup> per pack of 25 kg at 4mm dry film 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 such as oil, grease and extraneous spillages has to be cleaned using the suitable cleaning agent. Concrete shall be grinded, grit blasted or treated with equivalent and suitable mechanical means prior to the application of the primer.

#### Application

##### Priming:

CIKOpoxly Prim11 or 14, a two component epoxy based primer shall be used for priming the substrate. The base [Part-A] and hardener [Part-B] components of CIKOpoxly Prim11 or 14 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 self-levelling material

The base component [Part-A] of CIKOpoxly Floor SL4000 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 CIKOpoxly Floor SL4000, 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%.
- Substrate temperature is at least 3°C greater than the dew point temperature.

### Packaging

CIKOpoxly Floor SL4000 is available in 25 kg packs consisting of Part-A, B & C.

### Shelf life

CIKOpoxly Floor SL4000 has a shelf life of 12 months if stored in accordance with CIKO instructions.

### Storage

CIKOpoxly Floor SL4000 should be stored under enclosed shaded area at temperatures between 5 – 35°C.

### Health & safety

CIKOpoxly Floor SL4000 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

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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



- *Surface treatments*
- *Flooring and toppings*
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- *Concrete repair materials*
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- *Protective coating*
- *Joint Sealants and Moulding compounds*
- *Ancillaries*

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