

# CIKOpoxy SL2K

Smart Chemical Solutions



سيكو الشرق الأوسط  
MIDDLE EAST

## Epoxy based, solvent-free self-levelling topping & bedding system

### Description

CIKOpoxy SL2K is a solvent-free, self-levelling, two component topping and bedding system recommended for concrete and metallic substrates.

CIKOpoxy SL2K is based on liquid epoxy resin cured with special grade of hardener. It offers a seamless topping and bedding system to a thickness of 1 up to 4 mm and provides a smooth finish with excellent chemical resistance.

### Properties

- Flowable consistency for self-levelling application.
- Pre-weight multi component epoxy based system.
- Ease of application.
- Exhibits good wear and abrasion resistance
- Seamless finish; easy to clean and maintain.
- Resistance to general chemicals.
- Excellent durability and impact resistance.

### Application area

CIKOpoxy SL2K as topping and bedding system is suitable to use both in industrial and commercial segments such as,

- Hospitals and laboratories.
- Warehouse floors and food storage areas.
- Bedding system for precast casting beds.
- Utility services building floors.
- Pharmaceutical industries.
- Light engineering work shops.
- Walkways and loading bays.
- Production and storage areas.
- Manufacturing plants.

### Physical properties

Form	2 component system Part-A & B: Liquid
Colour	Standard colours
Mixing ratio	Pre weighed packs
Pot life @ 25 °C	30-40 minutes
Surface dry	3-4 hours
Tack free	8 hours
Compressive strength ASTM C579 @ 7 days	≥ 70Mpa (Clear) ≥ 80Mpa (Pigmented)
Flexural Strength ASTM C580 @ 7 days	≥20 Mpa
Tensile Strength ASTM D638 @ 7 days	≥10 Mpa
Pull off Bond Strength ASTM D7234	>2.5 Mpa
VOC	<10g/l

### Chemical Resistance

CIKOpoxy SL2K 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

CIKOpoxyl SL2K will provide coverage of 2.5m<sup>2</sup> per pack of 7.5 litres at 3mm film thickness.

Note: The coverage depends on the bed 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.

All surface irregularities, blowholes and voids shall be repaired and resurfaced using CIKOpoxyl Putty as per its respective technical data sheet.

### Priming

#### Cementitious Surfaces

It is recommended to prime and seal the clean and well prepared concrete surface using CIKOpoxyl Prim 11.

The base [Part-A] and hardener [Part-B] components of CIKOpoxyl 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.

#### Steel Surfaces

Ensure that the steel surface is free from rust, dust and all types of contaminations and extraneous spillages.

It is recommended to prime the well prepared steel surface using CIKOpoxyl Prim 14.

The base [Part-A] and hardener [Part-B] components of CIKOpoxyl Prim14 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

The base component [Part-A] of CIKOpoxyl SL2K 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.

Pour the hardener component [Part-B] into the mixed base component [Part-A] and mix well to homogeneity.

Properly mixed materials should be spread over the clean dry 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 CIKOpoxyl SL2K, ensure that

- Moisture content of the concrete substrate is less than 4%.
- Ambient temperature is between 10 – 45°C.
- Substrate temperature is between 10 – 35°C and at least 3°C above dew point temperature.
- Relative humidity is below 75%.

## Packaging

CIKOpoxyl SL2K (pigmented) is available in 7.5 litres kit consisting of Part-A & B.

CIKOpoxyl SL2K (Clear) is available in 5 litres kit consisting of Part-A & B.

## Shelf life

CIKOpoxyl SL2K has a shelf life of 12 months if stored in accordance with CIKO instructions.

## Storage

CIKOpoxyl SL2K should be stored under enclosed shaded area at temperatures between 5 – 35°C.

## Health & safety

CIKOpoxyl SL2K 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 further 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



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