Smart Chemical Solutions

CIKOcoat EP100

Solvent free high performance epoxy based protective coating

Description

CIKOcoat EP100 is a solvent free two component epoxy based coating system recommended for concrete and other suitable substrates. It provides excellent adhesion to substrates such as concrete, wood, steel etc.

CIKOcoat EP100 is based on liquid epoxy cured with a special grade of hardener. It offers a seamless coating with thickness ranging from 0.4 to 1.0mm and provides a smooth and hygienic coating.

Properties

- Two component epoxy based system.
- Easy maintenance and good resistance to most chemicals and solvents.
- Exhibits good wear and abrasion resistance.
- Easy to clean and maintain hygienic.
- Provides durable coating.
- Available in a wide range of light reflective colours to provide a brighter work area.

Application area

CIKOcoat EP100 as coating is suitable to use both in industrial and commercial segments such as,

- Hospitals and laboratories.
- Warehouse and food storage areas
- Utility services elements in commercial buildings
- Car park and drive ways.
- Pharmaceutical industries.
- Light engineering workshops
- Walkways and loading bays
- Production and storage areas.

Physical properties

Form	Two component system Part-A : Liquid Part-B : Liquid
Colour	Standard colours
Solids	100%
Mixing ratio	Pre-weighed packs
Pot life @ 25 ^{0}C	40-60 minutes
Surface dry	4-5 hours
Tack free	Approx. 8 hours
Final cure	7 days
Allowable foot traffic	24 hours
Compressive strength BS6319	>75 MPa
Pull off strength BS-EN 1015-12	>2MPa (Glue failure)
Water penetration BS EN 12390	NIL
Tensile Strength ASTM D412	>15MPa
VOC	<20g/l

Chemical resistance

CIKOcoat EP100 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
- Used sump oil
- Sodium chloride

Coverage
CIKOcoat EP100 will provide coverage of 5.0m^2 per litre at 200 microns dry film thickness.

Note : The coverage depends on the substrate condition and finish. Consult our 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.

Priming
Priming is recommended if CIKOcoat EP100 is to be applied over bare concrete or on highly porous substrates. CIKOcoat Prim11, a two component epoxy based primer shall be used for priming the substrate. The base [Part-A] and hardener [Part-B] components of CIKOcoat 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 topcoats
The base component [Part-A] of CIKOcoat EP100 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 material should be applied using brush or roller over the dry and clean primed surface, maintaining the required thickness. The coated surface should be left for 12 – 24 hours curing, depending on the prevailing ambient conditions.

It is always recommended to apply CIKOcoat EP100 in two coats or as a single coat of higher thickness. The high-build coat should be spiked using spike rollers to release entrapped air in the material to obtain a uniform, smooth and even finish.

Precautions
Prior application of primer and coating, ensure that
- Moisture content of the substrate is less than 4%.
- Ambient temperature is between 10 – 45^{0}C.
- Substrate temperature is between 10 – 35^{0}C.
- Relative humidity is below 75%.

Packaging
CIKOcoat EP100 is available in 4.0 litre and 15 litre kits consisting of Part-A & B.

Shelf life
CIKOcoat EP100 has a shelf life of 12 months if stored in accordance with manufacturer instructions.

Storage
CIKOcoat EP100 should be stored under cool enclosed shaded area at temperatures between 5 – 35^{0}C..

Health & safety
CIKOcoat EP100 should not come in contact with eyes or to be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate cloths, 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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