

CIKOpoxy WL100

Smart Chemical Solutions



سيكو الشرق الأوسط
MIDDLE EAST

High Performance Anti-Microbial epoxy based wall & floor coating

Description

CIKOpoxy WL100 is a solvent free two component epoxy based wall and floor coating system recommended for concrete and other suitable substrates. It provides excellent adhesion to substrates such as concrete, wood, steel etc.

CIKOpoxy WL100 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 finish.

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

CIKOpoxy WL100 is suitable to use as floor and wall coating in both industrial and commercial segments such as,

- Hospitals and laboratories.
- Warehouses and food storage areas
- Utility services elements in commercial buildings
- Pharmaceutical industries.
- Light engineering workshops
- 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 °C	40-60 minutes
Surface dry	3-4 hours
Tack free	Approx. 8 hours
Final cure	7 days
Compressive strength BS6319-2 (7days)	>85 MPa
Flexural Strength ASTM C580 (7days)	>40 Mpa
Pull off Bond Strength ASTM D7234	>2.5MPa
Water penetration BS EN 12390-8	NIL
Tensile Strength ASTM D638	>15MPa
Percentage of reduction in Bacterial and Microbial Activity (24 hours) ASTM E2180-18	>80%

Chemical resistance

CIKOpoxy WL100 is resistant to a wide range of chemicals when tested as per ASTM D543, Patching Method. Specific data is in below table:

Test Solution	Test Condition	Observation & Test Result
Sulphuric acid	23± 2°C	No Characteristics Observed (Resistant)
Hydrochloric Acid		
Acetic Acid		
Lactic Acid		
Sodium Hydroxide		
Ammonium Hydroxide		
Sodium Chloride		
Petrol		
Kerosene		
Hydraulic oil		
Vegetable oil		

Coverage

CIKOpoxy WL100 will provide a theoretical coverage of 10 m² per litre at 100 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 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.

Priming

Usually priming is not required, unless CIKOpoxy WL100 is to be applied over bare concrete or on highly porous substrates.

For porous surface CIKOpoxy Prim14 or 11, a two component epoxy based primer shall be used for priming the substrate. The base [Part-A] and hardener [Part-B] components of CIKOpoxy Prim14 or 11 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.

For surface subject for heavy traffic CIKOpoxy Prim14 is recommended to improve mechanical bonding.

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 CIKOpoxy WL100 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.

Note: It is recommended to apply CIKOpoxy WL100 in two coats.

Cleaning

Equipment is to be cleaned with CIKOsol immediately after usage.

Contact CIKO technical team for more guidance and information.

Precautions

Prior application of primer and coating, ensure that

- Moisture content of the substrate is less than 4% [for primer application only].
- Ambient temperature is between 10 – 45⁰C.
- Substrate temperature is between 10 – 35⁰C and at least 3⁰C above dew point temperature.
- Relative humidity is below 75%.

Packaging

CIKOpoxy WL100 is available in 4 and 15 litres kits consisting of Part A & B.

Shelf life

CIKOpoxy WL100 has a shelf life of 12 months if stored in accordance with the recommended storage conditions.

Storage

CIKOpoxy WL100 should be stored in original packing under cool enclosed shaded area at temperatures between 5 – 35⁰C.

Health & safety

CIKOpoxy WL100 should not come in contact with eyes or to be swallowed. Ensure adequate ventilation and avoid inhalation of vapours.

Applicator should wear suitable cloths, gloves and goggles. Use barrier creams recommended providing 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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ت : ٤٤١١ ٤٧٨٧ ، ٤٤١١ ٤٧٩٠ ، ٤٤١١ ٤٧٩٤
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