

CIKOpoxy WB100

Two component water Based epoxy wall and floor coating

Description

CIKOpoxy WB100 two component water based epoxy coating recommended for concrete and masonry substrate where there is risk of rising humidity. It provides excellent adhesion to substrate like concrete, wood and other porous substrates.

CIKOpoxy WB100 is a low viscosity preconditioning which stabilizes the concrete substrate and isolates subsequent coating from the alkalinity of the concrete which assists the degradation of top coats.

Properties

- Two component water based epoxy based system, moisture tolerant.
- Provides excellent adhesion to many substrates.
- Exhibits good impact and abrasion resistance.
- Provides extremely good bonding to top coats.
- Available in wide range of colours.
- Cost effective.
- Hygienic and anti-microbial.
- Exhibits very good sealing properties.
- Moisture tolerant.
- Exhibits low odour, non-flammable.
- Water based with very low VOC.

Application area

- Warehouses and interior residential buildings.
- Industrial and commercial kitchen walls.
- Food processing plant walls.
- Hospitals and pharmaceutical factory walls.
- Medium duty indoor floor traffic areas.

Physical properties

Form	Two component system Part A & B : Liquid
Colour	Available in wide range
Mixing ratio	Pre-weighed packs
Solids %	75 ± 5 % (by weight)
Density (g/cm ³)	1.3±0.05
Finish	Semi-gloss
Pot life @ 25 °C	≥120 minutes
Minimum time between coats	4 to 6 hours
Maximum time between coats	18 to 24 hours
Water Absorption ASTM D570	Max. 0.07%
Abrasion Resistance ASTM D4060 (1000 cycles, 1kg, CS10)	Max. 90 mg
Pull off strength ASTM D-7234 @ 7 days	≥2 Mpa (concrete) ≥1 Mpa (plaster, acrylic putty and fair facing material)
Reduction in Bacteria after 24 hours incubation at 37 ⁰ C ASTM E2180-18	≥95 %

Coverage

CIKOpoxy WB100 will provide coverage 7 to 8 m²/L at 100µ DFT. Note: The coverage depends on the floor or wall condition, porosity and finish. Consult CIKO technical service department for assistance.

Application instructions

Surface preparation

The substrate surface shall be free from dust and loose particles. All contamination should be treated well before application of initial coat. All cracks and defected areas shall be treated with CIKO wide range of repair material. Consult CIKO technical Department for further support.

Priming

CIKOpoxy WB 100 diluted with 5 % clean and potable water can be used as a primer. The properly mixed diluted CIKOpoxy WB 100 should be applied using a brush, roller or sprayer to achieve a thickness of 100 to 150 microns DFT. It must be kept safe for at least 12 to 24 hours prior to the application of subsequent coat.

If Anti-slip finish is required apply at a rate of 0.3 to 0.4 L/m² and whilst it is wet spread CIKO ASG at a rate of 0.75 to 1.25 kg/m².

Mixing

The base [Part-A] and hardener [Part-B] components of CIKOpoxy WB100 should be mixed thoroughly using a heavy duty, slow speed drill paddle assembly for three to five minutes and ensure a homogenous colour is obtained.

Application

Properly mixed material should be applied using brush or roller over the dry primed surface at the rate of 0.18 L/m² to 0.2 L/m² (150 microns DFT) per coat. At least 2 coats are recommended for light weight traffic areas. The first coat shall be kept safe between 4 to 6 hours prior to the application of the second coat of CIKOpoxy WB100. In case the allowable time limit between the coats has been exceeded, it is recommended to create a mechanical key bond by roughing the surface of the base coat using a sand disk.

In case of spray application, it is recommended to use Airless Spray using the appropriate nozzle.

For exterior applications subjected to sunlight, it is recommended to apply a protective aliphatic polyurethane based coating such as CIKOCOat UV333 at a minimum thickness of 100 microns DFT. When to be applied over treated and un-corroded metal surfaces, it is recommended to

prime the surface using CIKOpoxy prim 14 at least 12 to 24 hours prior to the application of CIKOpoxy WB100.

Precautions

Prior application ensure that:

- Ambient temperature is between 10 – 40°C.
- Substrate temperature is between 10 – 35°C.
- Relative humidity does not exceed 85%.
- Substrate moisture content is less than 10%.

Packaging

CIKOpoxy WB100 is available in 4.0 litre and 15.0 litre kits consisting of Part-A & B.

Shelf life

CIKOpoxy WB100 has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOpoxy WB100 should be stored under enclosed shaded area at temperatures between 5 – 30°C.

Health & safety

CIKOpoxy WB100 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
- 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 here in 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.

