

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.

Advantages & Properties

- Two component water-based system
- Moisture tolerant.
- Excellent adhesion to many substrates.
- Good impact and abrasion resistance.
- Available in wide range of colours.
- Cost effective.
- Hygienic and anti-microbial.
- Excellent sealing properties.
- Moisture tolerant.
- Low odour, non-flammable.
- Low VOC.

Application Area & Uses

- Warehouses
- Interior residential buildings.
- Industrial and commercial kitchen.
- Food processing plant.
- Hospitals and pharmaceutical factory.
- 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)	1.35 ± 0.05
Finish	Semi-gloss
Pot life @ 25 °C	≥60 minutes
Minimum time between coats	6 hours
Maximum time between coats	24 hours

Water Absorption ASTM D570	< 0.07%
Abrasion Resistance ASTM D4060 (1000 cycles, 1kg, CS10)	< 90 mg
Pull off strength ASTM D-7234 @ 7 days	≥2 Mpa (concrete)
Reduction in Bacteria after 24 hours incubation at 37°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 WB100 diluted with 5% clean and potable water can be used as a primer. The properly mixed diluted CIKOpoxy WB100 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 CIKOpox 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 CIKOpox Prim14 at least 12 to 24 hours prior to the application of CIKOpox 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

CIKOpox WB100 is available in 4 litre and 15 litre kit consisting of Part-A & B.

Shelf life

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

Legal Notice and Warranty

CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

Storage

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

Health & safety

CIKOpox 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 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
- Waterproof and Damp-proof coatings
- Surface Treatments
- Walls, Flooring and Toppings
- Grouts and anchors
- Tile Adhesives and Grouts
- Concrete Repair Materials
- Adhesives and Bonding Agents
- Protective Coatings & Sealers
- Joint Sealants and Moulding compounds
- Sports Flooring
- Plastering Mortars
- Paints