

CIKOcoat EPW



Solvent Free non-toxic epoxy based protective coating for water retaining structures

Description

CIKOcoat EPW is a solvent free, nontoxic two component; epoxy based protective coating system recommended for concrete and steel. It provides excellent adhesion to substrate such as concrete, wood, steel etc.

CIKOcoat EPW is based on liquid epoxy cured with a special grade of hardener. It offers seamless coating and protection against ingress of water under hydrostatic pressure.

Properties

- Two component epoxy-based system.
- Easy to apply using brush or roller.
- Easy maintenance and good resistance to chemical and fungal growth.
- Non-toxic
- Low VOC
- Available in standard range of colours.

Application Area

CIKOcoat EPW as a protective coating is suitable to use both in industrial and commercial segments such as,

- Hospitals and laboratories.
- Water retaining structures such as potable water tanks, pipes, reservoirs, water treatment tanks etc.,
- Food storage areas.
- Meat processing areas.
- Pharmaceutical industries.
- Food production areas.

Coverage

CIKOcoat EPW is designed to be applied in two coats to achieve 400µ DFT with a coverage rate 5.0 m² per litre @ 200 microns DFT/coat.

Note: The coverage depends on the floor condition and finish. Consult our technical service department for assistance.

Chemical Resistance

CIKOcoat EPW is resistant to a wide range of chemicals.

Physical properties

Form	Two component system Part-A: Liquid Part-B: Liquid
Colour	Standard colours
Solids	99-100%
Mixing ratio	Pre-weighed packs
Pot life @ 25 °C	40-60 minutes
Tack free	Approx. 8 hours
Final cure	7 days
Allowable foot traffic	24 hours
Pull off bond strength ASTM D4541	≥2.5 N/mm ² (concrete failure)
Compressive strength ASTM C579	>70 MPa @ 7 days
VOC (USEPA 24/ASTM D2369)	<20 g/L
Water penetration BS EN 12390-8 @ 7 days	NIL

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 shall be repaired and resurfaced using CIKOpoxy Putty or CIKOMortar FC as per its respective technical data sheet.

Application of primer

In general cases properly prepared and repaired concrete does not require any priming. For porous substrate, CIKOpoxy Prim 14/11 is recommended to be applied.

Application of topcoats

The base [Part-A] should be stirred first to disperse any settlement. The entire container of the hardener [Part-B] should be poured completely into the base container and mixed thoroughly until uniform colour is obtained. It is recommended to use heavy duty slow speed drill-paddle assembly for two three minutes and ensure a homogenous mix.

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 EPW in two coats achieving at least 400 microns dry film thickness or as a single coat of higher thickness in horizontal applications. 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.

Packaging

CIKOcoat EPW is available in 4 litre & 15 litre kits consisting of Part-A & B.

Shelf life

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

Storage

CIKOcoat EPW should be stored under cool enclosed shaded area at temperatures between 5 – 35°C.

Precautions

Prior application of primer and coating, ensure that;

- Moisture content of the 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%.

Health & safety

CIKOcoat EPW should not come in contact with eyes or to 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
- 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

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.

TDS/PC25 Rev.: 6 Issue: C

All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.