

CIKOcoat PE



One Component, Water-Based Polyester Waterproofing and Protective Coating

Description

CIKOcoat PE is a single-component, high-performance waterproofing and protective coating formulated with a waterborne hydrophobic polyester resin. This product offers exceptional chemical and abrasion resistance, making it an ideal solution for preserving concrete structures and preventing corrosion and deterioration.

Properties & Advantages

- Easy to apply
- Environmentally friendly
- Can be applied on damp concrete
- Multi-purpose product; can be used as waterproofing, protective coating and curing compound.
- Good chemical and abrasion resistance

Application Area & Uses

CIKOcoat PE is suitable to be used for

- Suitable for waterproofing and protection of underground structures, exposed surfaces, and foundations protection.
- Can be used as curing compound for concrete.

Standard Compliance

CIKOcoat PE complies with ASTM C309 when applied at a rate of 5m² per litre.

Coverage & Recommended thicknesses

Waterproofing/Protective Coating: 2.5 m² per litre @ 400 microns WFT per coat. Two coats are recommended

Curing compound: 5m² per litre to achieve 200 microns WFT

Note: Coverage rates given are theoretical. Due to wastage and the variety or/and nature of substrates, practical coverage figures may be reduced, this will vary with site and application conditions.

Physical properties

Density	1.3 ± 0.1 g/cm ³
Solid Content (by weight)	54 ± 1%
Surface Drying Time (ASTM D1640)	35-40 mins @ 20°C 10-15 mins @ 35°C 04-06 mins @ 45°C
Overcoating Time (ASTM D1640)	6-7 hours @ 20°C 3-4 hours @ 35°C 2-3 hours @ 45°C
Complete Cure	7 days @ 25°C
Adhesion Strength (ASTM D4541)	≥ 1.0 N/mm ²

Chemical Resistance

Tap Water	Resistant
Sea Water	Resistant
Distilled Water	Resistant
Ground Water	Resistant
High Sulphate Water	Resistant
Ethylene Glycol 40%	Resistant
Acetic Acid 20%	Resistant
Lactic Acid 20%	Resistant
Nitric Acid 5%	Resistant
Copper Sulphate 25%	Resistant
Zinc Sulphate 25%	Resistant
Magnesium Sulphate 25%	Resistant

Application Instructions

Surface preparation

Before applying CIKOcoat PE, ensure that the concrete surface is clean and free from dust, loose particles, or any weak, thin layers. Remove any contaminants like oil, grease, or spills using an appropriate cleaning agent. For porous surfaces, it is recommended to spray a generous amount of water before applying CIKOcoat PE.

Application Method

- Prior to application, thoroughly stir the material by hand.
- Apply CIKOcoat PE using a brush, short nap high-quality roller, or airless spray at a rate of 1.25 m² per Liter, ensuring a minimum thickness of 200 microns in wet film thickness (WFT). The material can also be applied in one coat at 400 microns WFT.
- Apply the second coat after 6 to 8 hours, depending on ambient conditions, in a direction perpendicular to the first coat. This will result in a total wet film thickness of 800 microns (360 - 400 microns dry film thickness, DFT).

Precautions & Recommendations

- Application should not commence below 10°C or above 50 °C
- The coat shall be protected from foot traffic, any source of rain or when there is standing or running water on the surface.
- Exposure to chemicals may result in slight colour change over time however this is only visual and will not affect the mechanical properties of the product.

Packaging

CIKOcoat PE is available in 20 L.

Shelf life

CIKOcoat PE has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOcoat PE should be stored in its original packaging under enclosed shaded area away from direct sunlight, rain and moisture at temperatures between 5 – 25°C.

Health & safety

CIKOcoat PE 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 meets 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

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 expert.

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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.



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