

CIKOproof 2K Extra



Drinking Water Certified Elastomeric Cementitious Waterproof Coating

Description

CIKOproof 2K Extra is an acrylic modified cement based waterproof coating for horizontal and vertical applications inside water drinking water tanks and on concrete, mortar and clay / cement block masonry surface.

CIKOproof 2K Extra is a two-component waterproofing system consisting of Part-A which is a blend of select cement type, graded fine aggregates, dispersing agent etc. and Part-B which is an aqueous dispersion of adhesion enhancing polymer in the form of liquid component. CIKOproof 2K Extra penetrates into the pores of the substrate and seals it to provide a flexible and elastomeric waterproof membrane upon curing.

Properties & Advantages

- Two component system.
- Easy to mix and use.
- Certified to be used with drinking water.
- Allow the substrate to breath.
- Non-Flammable and Nontoxic.
- Negligible volatile organic compounds
- Flexible and elastomeric waterproof membrane.
- Excellent bond strength.
- Crack bridging ability of more than 3mm.
- Resistant to carbon dioxide and chloride ion diffusion.
- Resistance to fungal growth.
- Capable to withstand positive and negative hydrostatic pressure

Application Area & Uses

CIKOproof 2K Extra is a high quality cementitious waterproof membrane coating that can be used for interior or exterior applications.

- Drinking water tanks both interior and exterior.
- Masonry wall, concrete and plaster surface.
- Water retaining structure such as tank retaining wall and water barriers.
- Basements and pits.
- Wet area waterproofing.
- Roof and terrace waterproofing.

Compliances

CIKOproof 2K Extra has been certified by the AWQC institute (**Australian Water Quality Centre**) for **waterproofing of drinking water tanks** when tested in accordance to BS 6920-1:2014.

Physical properties

Form	Two component system Part-A: Powder Part-B: Liquid
Colour	Grey or white
Pot life @ 25°C	45 – 60 minutes
Mixed Density	1.45 – 1.5 kg/L
Drying time for overcoat	2 to 3 hours
Application temperatures	5 – 40°C
Pull off strength ASTM D4541	>2 N/mm ²
Tensile Strength ASTM D 412	>1 N/mm ²
VOC (USEPA 24)	<20g/l
Water Permeability BS EN 12390-8 (5 Bar)	Nil
Reduction in Chloride ion Penetration	>90%
Water-Vapour Transmission ASTM E96	0.02 g/m ² /hr
Crack bridging ASTM C1305	>3 mm

Coverage

27kg kit of CIKOproof 2K Extra yield to 18 to 18.5 litres and provide coverage of 18 m² at 1 mm thickness.

Note: Coverage rate may vary depending on substrate condition and type.

Required total dry film thickness applied in two coats ranges from minimum 1 mm up to 3mm depending on intended to use location and service life. Consult CIKO technical service department for further support.

Application Instructions

Surface preparation

The concrete or cement substrate shall be free from all loosely adhered particles, efflorescence, dust, oil, grease or any other contamination. In case of oil spillage, proper treatment should be carried out on the surface. After ensuring sound substrate, dampen the surface with water just before the application of CIKoproof 2K Extra.

Wherever cracks, voids, honeycombs, etc. are presents, the surface must be repaired using CIKO wide variety of repairs materials. (Refer to CIKO technical team for more details).

Note: at right angles it is advisable to use a fibre mesh sandwich between the coatings.

Mixing

Liquid component of CIKoproof 2K Extra [Part-B] should be mixed with powder component [Part-A] using heavy duty slow speed drill-paddle assembly. The properly mixed material should be lump free and paint consistency.

Application method

The mixed material should apply on the cleaned and damped surface using brush or roller at the rate of 1.4 kg to 1.6 kg per coat. Care should be taken to coat the surface without leaving any gap. CIKoproof 2K Extra can be applied by spray using suitable spray equipment. The second coat must be applied in cross direction to the first coat.

Precautions & Recommendations

- Do not apply over standing water.
- Do not apply if the ambient temperature is more than 40°C.
- Do re-temper the material after initial mix.

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.

Packaging

CIKoproof 2K Extra is available in 27 kg kit consisting of Part- A Powder [15 kg] and Part-B Liquid [12 kg].

Shelf life

CIKoproof 2K Extra has a shelf life of 12 months in unopened bags and if stored in accordance with CIKO instructions.

Storage

CIKoproof 2K Extra should be stored under enclosed shaded area.

Health & safety

Use standard dust mask to avoid inhalation of dust. Powder when wet or moist can cause burns to skin and eyes which should be protected during use. 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

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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.