

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

- 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

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 ^o C	45 – 60 minutes
Mixed Density	1.45-1.5 kg/L
Drying time for overcoat	2 to 3 hours
Application temperatures	5-40 ^o C
Pull off strength ASTM D4541 @ 7 & 28 days	>2 N/mm ²
Tensile Strength ASTM D 412	>1 N/mm ²
Elongation ASTM D 412	>90%
VOC (USEPA 24)	<20g/l
Water penetration 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.

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.

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 un- opened bags and if stored in accordance with CIKO instructions.

Storage

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

Precautions

- DO not apply over standing water.
- Do not apply if the ambient temperature is more than 40⁰ C.
- Do re-temper the material after initial mix.

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 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 herein 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



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