CIKOproof 2K
Flexible cementitious waterproof coating

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

CIKOproof 2K 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 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.
- Allow the substrate to breath
- Non-flammable and Nontoxic.
- Negligible volatile organic compounds
- Flexible and elastomeric waterproof membrane.
- Excellent bond strength.
- Crack bridging ability.
- Resistance to fungal growth.
- Capable to withstand positive and negative hypostatic pressure

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

Physical Properties
<table>
<thead>
<tr>
<th></th>
<th>Two component system</th>
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<tbody>
<tr>
<td>Form</td>
<td>Part-A : Powder</td>
</tr>
<tr>
<td></td>
<td>Part-B : Liquid</td>
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<tr>
<td>Colour</td>
<td>Grey or white</td>
</tr>
<tr>
<td>Pot life @ 25°C</td>
<td>45 – 60 minutes</td>
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<tr>
<td>Mixed Density</td>
<td>1.7 kg/l</td>
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<tr>
<td>Tensile Strength ASTM D412</td>
<td>1.0 N / mm²</td>
</tr>
<tr>
<td>Elongation ASTM D412</td>
<td>&gt;60%</td>
</tr>
<tr>
<td>VOC (EPA 24)</td>
<td>&lt;5g/l</td>
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<tr>
<td>Initial surface absorption</td>
<td>Min. 95% reduction than control</td>
</tr>
<tr>
<td>Water penetration BS EN 12390 part 8</td>
<td>Nil</td>
</tr>
<tr>
<td>(Hydrostatic pressure: 5 bars)</td>
<td></td>
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<tr>
<td>Reduction in Chloride ion Penetration</td>
<td>93%</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>0.02 g/m2/hr</td>
</tr>
<tr>
<td>Crack bridging ability</td>
<td>&gt;2 mm</td>
</tr>
</tbody>
</table>

Coverage
30kg bag of CIKOproof 2K yield to 17-18 liters and provide coverage as follow:
@1mm Thickness: 1.7kg/m²
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. 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 [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 dampened surface using brush, roller or trowel at the rate of 1.0 kg to 1.6 kg in two coats. Care should be taken to coat the surface without leaving any gap. CIKOproof 2K 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 is available in 30kg kits consisting of Part-A 20kg powder and Part-B 10.0 litre liquid.

Shelf Life
CIKOproof 2K has a shelf life of 12 months in un- opened bags and if stored in accordance with CIKO instructions.

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

Precautions
- Not to use over standing water.
- Not to use if the ambient temperature is more than 40° 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

TDS/WP18  Rev.: 4 Issue:C

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.