

# CIKOproof AC



## Acrylic Based, Highly Elastic Liquid Applied Waterproof Coating

### Description

CIKOproof AC is acrylic water based highly elastomeric waterproofing membrane coating for horizontal and vertical applications over concrete, polyurethane foam, screeds, CMU blocks and other masonry surfaces. It exhibits excellent flexibility and resistance to ultra-violet (UV) rays.

CIKOproof AC is based on special acrylic polymer with other additives to form seamless and watertight elastomeric membrane upon curing when exposed to atmosphere and ambient conditions.

### Properties & Advantages

- Single component system and ready-to-use.
- Cold applied by brush, roller or spray.
- Permanently elastic and flexible seamless membrane.
- Suitable for interior and exterior applications.
- Excellent UV resistance and stability.
- High bond strength to wide range of substrates.
- Water based resulting in low VOC content
- Water resistant and watertight
- Non-toxic and non-hazardous.

### Application Area & Uses

CIKOproof AC is a high-quality waterproof membrane coating that can be used for interior and exterior applications not subjected to traffic such as:

- Roof waterproofing over wide range of substrates such as concrete, sand-cement screed, wood, metal, terrazzo tiles, etc.
- As a protective and waterproof coating over polyurethane spray foam.
- Wet areas waterproofing below tiles
- Terrace and roof garden waterproofing.

### Physical properties

Form	Viscous liquid
Colour	White in general (specific colours are available upon request)
Solid Content (by weight)	53 ± 3%
Specific gravity	1.25 ± 0.05 kg/L
Full Cure	7 days @ 25° C
Application temperature	Ambient 5°C - 40°C
Overcoating time	18-24 hours @ 25° C
Service temperature	-5° C to +80° C
*Water Vapor Transmission ASTM E96	≤0.4 g/m <sup>2</sup> .24hrs
Water Resistance (volume change) ASTM D471	≤ 0.02%
*Tear Resistance ASTM D1004	≥8 N/mm
*Tensile Strength ASTM D412	0.8 - 1 N/mm <sup>2</sup>
*Elongation at Break ASTM D412	≥250%
*Water Permeability of concrete coated with CIKOproof AC BS EN 12390-8	NIL (0mm)

\*The above tests are conducted on fully cured CIKOproof AC and a dry film thickness of 1mm.

### Coverage & Thickness

A spreading rate of 2.3 kg/m<sup>2</sup> up to 2.4 kg/m<sup>2</sup> of CIKOproof AC will provide a thickness of 1 mm DFT applied in minimum 2 coats.

Coverage rate may vary depending on substrate conditions, type, porosity and irregularities.

The recommended thickness ranges between 1 mm and 2 mm DFT depending on service requirements, application area and project specifications/requirements. Consult CIKO technical department for further assistance.

## Application Instructions

### Concrete/screed surface preparation

The concrete/screed surface shall be cured for at least 14 up to 21 days and free from all loosely adhered particles, efflorescence, dust, oil, standing water, grease or any other contamination. In case of oil spillage, proper treatment should be carried out on the surface. The most suitable method to prepare the surface is by water jetting or by diamond disk grinding.

All potholes, cracks, blowholes must be repaired and allowed to cure using the suitable material. Consult CIKO technical department for further assistance.

### Cementitious tiles surface preparation

Loose and broken tiles must be removed and replaced with new tiles. The joints between the tiles must be filled with the suitable tile grout material and levelled to the surface.

Then the surface must be grinded using a diamond disk to achieve a rough and open textured surface.

### Metal surface preparation

Wire brush, grit blast or sandblast the metallic surface to remove rust, corrosion, mildew and loose/previous paint. In case a good surface preparation is hard to achieve, it is recommended to treat the rusty or poorly prepared steel with the suitable type of rust chelating product or rust converter and allow initial curing prior proceeding.

### Mixing

CIKOprouf AC is a single component product which requires only mixing and stirring using an adjustable speed drill-paddle assembly to ensure a homogeneous consistency and solid distribution.

### Application Method

#### Primer Application

Priming is highly recommended over porous substrates and cement-based substrates to ensure proper sealing and good bonding. Dilute CIKOprouf AC with 20% by weight using clean potable water and mix it well using an adjustable speed heavy duty drill-paddle mixer to ensure achieving a homogeneous consistency.

Note: Metal or non-porous surface does not require a prime coat of CIKOprouf AC.

Apply the diluted CIKOprouf AC over the properly treated and cleaned surface using a brush or high-quality emulsion roller at a consumption rate ranging between 0.25 kg/m<sup>2</sup> and 0.35 kg/m<sup>2</sup> and ensure that the substrate has received enough primer. Allow the applied surface to dry and cure for at least 12 up to 24 hours prior proceeding with subsequent coat.

### Subsequent Coats

Apply neat CIKOprouf AC (without dilution) on the primed surface using brush, high quality medium nap emulsion roller or spray at a consumption rate ranging between 0.9 kg/m<sup>2</sup> and 1.1 kg/m<sup>2</sup> per coat.

At right angles fillet, pipe penetrations, drainages, it is recommended to fully embed a non-woven reinforcement fibre mesh over the still wet first coat surface. Allow the first coat to dry for minimum 18 hours up to 24 hours prior to application of second coat.

In a similar way, apply the second coat in cross-sectional direction to the first coat at the same consumption rate. Protect the applied surface at least for 24 hours from any source of dust accumulation, water or condensate.

### Packaging

CIKOprouf AC is available in 20 kg pails.

### Storage

CIKOprouf AC must be stored under enclosed shaded areas at temperatures between 10<sup>o</sup> C and 30<sup>o</sup> C.

### Shelf life

CIKOprouf AC has a shelf life of 12 months if stored in its original un-opened pails as per CIKO's storage instructions.

### Health & safety

CIKOprouf AC should not come in contact with eyes or be swallowed. 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 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*
- *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 is 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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