

CIKOproof PUR-700

Green Chemical Solutions



سيكو الشرق الأوسط
MIDDLE EAST

Polyurethane- Acrylic based liquid applied waterproofing membrane

Description

CIKOproof PUR-700 is cold applied single component polyurethane modified acrylic based waterproofing membrane coating especially designed for roof waterproofing applications on concrete, polyurethane foam, mortar and metal surfaces. It exhibits excellent resistant to ultra-violet (UV) rays and permanent elasticity.

CIKOproof PUR-700 is based on special acrylic polymer with other additives to form seamless and watertight elastomeric membrane after curing on exposure to atmosphere.

Properties

- Single component system and ready-to-use.
- Cold applied by brush, roller or spray.
- Elastomeric and flexible seamless membrane with crack bridging ability.
- Suitable for interior and exterior applications even on surface having irregular profiles.
- Excellent resistance to aging and UV rays.
- Provides excellent bond strength over wide range of porous and non-porous substrates.
- Non flammable.
- Non-toxic and Low VOC
- Water vapour permeable

Application area

CIKOproof PUR-700 is a high quality waterproof membrane coating that can be used for interior and exterior applications.

- Roof waterproofing on wide range of substrates such as concrete, sand-cement screed, wood, metal, bitumen sheets, terrazzo tiles etc.
- As a protective and waterproof coating over polyurethane spray foam.

Physical properties

Form	Liquid
Colour	White
Solid content	48 ± 2% by Volume
Specific gravity	1.3 ± 0.05 kg/L
Application temperature	5 ^o C - 40 ^o C
Curing time @ 25 ^o C	Approx. 24 hours
Minimum Over coating interval	8 hours @ 20 ^o C 4 hours @ 35 ^o C
Service temperature	-5 ^o C to +80 ^o C
Elongation at Break ASTM D412	≥150%
Tensile Strength ASTM D412	1.3-1.5 N/mm ²
Water Permeability BS EN 12390-8	Nil
UV resistance	No deterioration or colour fade

Coverage

CIKOproof PUR-700 provides coverage as follows.

350 microns DFT	1 kg / m ²
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Minimum 2 coats are recommended each at a consumption rate of minimum 0.5 kg/m² up to 1kg/m². Consumption might vary depending on substrate condition and type of substrate.

Total dry film thickness depends on performance requirements as per application area and intended to use location. Consult CIKO technical service department for further support.

Application instructions

Surface preparation

The concrete 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. All pot holes and wider cracks must be repaired using suitable repair material From CIKO range of products.

All coving, chamfers, corner fillet must be prepared prior to any waterproofing application using the suitable non-shrinking material.

Polyurethane foam:

Loose and broken parts must be removed and repaired. Ensure the polyurethane foam has cured totally. No dust or loose particles are present on the surface.

Metal surface: Wire brush to remove rust, mildew and loose paint. In case of corroded surfaces, proper priming shall be done with a primer.

Mixing

CIKOpur PUR-700 is a single component system and requires only slight mixing using a slow speed drill-paddle assembly.

Priming

For priming, dilute CIKOpur PUR-700 with 10% water [by volume] and mix it well to homogeneity using a slow speed heavy duty drill-paddle assembly.

Application method

Primer application

On porous substrates apply a thin coat of primer using brush or roller and allow drying. Primer coat will penetrate and seal the pores and is recommended to achieve full efficiency of CIKOpur PUR-700 as waterproofing membrane.

Note: Metal or non porous surface dose not need primer coat.

Topcoat

Apply neat CIKOpur PUR-700 (without dilution) on the primed surface using brush, roller or spray at the rate of 0.5 to 1 kg per square meter per coat and allow to dry for 4 up to 8 hours prior to application of second coat. Care should be taken to coat the surface without leaving any gap. In similar way, apply second coat of CIKOpur PUR-700 over the first coat at the rate of 0.5 kg up to 1 kg per square meter.

CIKOpur PUR-700 is applied in minimum 2 coats up to 6 coats depending on the required final thickness and required system.

It is recommended to reinforce the applied membrane using a compatible type of fabric mesh especially at right angles fillet, chamfers, pipe penetrations and drainages.

Refer to method statement for further details.

Packaging

CIKOpur PUR-700 is available in 20 kg pails.

Shelf life

CIKOpur PUR-700 has a shelf life of 12 months in unopened pails and if stored in accordance with CIKO instructions.

Storage

CIKOpur PUR-700 should be stored under enclosed shaded area.

Precautions

- Not to use over standing water.
- Application temperature must be between 5 – 40°C.
- Substrate moisture content is less than 6%.
- Surface temperature is between 8°C and 35°C and at least 3°C above dew point temperature.

Health & safety

CIKOpur PUR-700 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