

# CIKOseal APP

## Bituminous Waterproofing Membrane

### Description

**CIKOseal APP** is a torch applied bituminous waterproofing membrane manufactured from distilled bitumen modified with thermoplastic resins (APP, IPP). The membrane is reinforced by non-woven polyester. The polyester gives the membrane excellent mechanical properties allows for high tensile, elongation and tear strength. Both surfaces of the membrane are protected by a plastic film easily torched.

### Characteristics

Bituminous compound

- Single component system.
- Good high and low temperature resistance
- Resistant to ultraviolet rays
- Absolute water tightness
- Good resistance to acids and alkalis
- Non-woven polyester
- Resistant to static loading
- Good tensile strength and elongation
- Tear and wear resistant

### TECHNICAL CHARACTERISTICS

PROPERTIES	METHOD	UNIT	RESULTS
Roll length	ASTM D-5147	m	10
Roll width	ASTM D-5147	m	1
Thickness	ASTM D-5147	mm	4.0±0.2
Tensile strength Longitudinal Transversal	ASTM D-5147	N/5cm N/5cm	700 600
Elongation at max load Longitudinal Transversal	ASTM D-5147	% %	38 38
Tear Resistance Longitudinal Transversal	ASTM D-4073	N N	500 400
Hydrostatic Pressure @ 5 bar	ASTM D-5147		No Leakage
Lap Joint Strength  End lap jointing Side lap jointing	UEAtc M.O.A.T.30	N/5cm N/5cm	700 600
Puncture Resistance	ASTM E154	N	>600
Cold flexibility	ASTM D-5147	°C	0 to -5
Softening point	ASTM D-36	°C	>155
Penetration at 25° C	ASTM D-5	dmm	12 to 20
Water Absorption	ASTM D-5147	%	<3.2
Dimensional stability	ASTM D 5147	%	±0.5

## Application instructions

### Surface preparation

Prior to surface preparation, a full level survey of the top surface shall be conducted. If high spots are present they shall be removed using an appropriate diamond blade floor grinder to achieve a smooth and regular surface finish that is free of grooves, ruts, and protruding aggregates.

Likewise if excessive depressions in the top surface are recorded, these shall be filled using CIKO shrinkage compensated repair mortar. A square perimeter shall be marked around the low area and a saw cut of 10mm deep shall be applied around the entire perimeter. The surface concrete shall be broken out within the saw cut lines. The surface shall be then scabbled to give a rough finish and the repair mortar applied in accordance with CIKO recommendations. Finishing of the repair patch shall be smooth steel floated finish.

Following rectification of any undulations recorded during level survey, the required surface finish shall be obtained.

### Application method

The substrate shall be primed using CIKOprimer SB (Priming coat to be applied in accordance with the manufacture recommended application). All areas to receive waterproofing within that particular application area shall be primed including all horizontal, inclined and vertical areas. Primer shall only be applied to areas that are to receive waterproofing under that particular application period.

Prior to start of application of waterproofing membrane all primed areas must be free of dust and other deleterious material. The waterproofing membrane shall be unrolled and properly aligned. The membrane shall then be lightly stretched to remove any wrinkles, then rolled back up to the middle of the sheet. Waterproofing membrane sheets shall be laid such that end overlaps of adjacent sheets are staggered and that each end overlaps is a minimum of 150mm. longitudinal edge laps shall be a minimum of 100mm.

The membrane must be fully torched onto the substrate by applying the butane torch flame to the whole width of the roll in order to burn off completely the polyethylene foil and melt superficially the bitumen. This should be done while gradually unrolling and at the same time pressing the membrane sheet towards the substrate to create a heat weld between the membrane and the substrate. When this section of the roll has been securely installed, the remaining part of the membrane should be re-rolled to the point of application and heat welded in the opposite direction.

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Seams at overlaps must be secured for proper welding by running a heated trowel along the edge of the seam. After covering the whole area, rechecking shall be done to ensure that the membrane is fully heat welded at all laps and around the perimeter. The membrane shall be tucked inside joints ready to receive mechanical expansion joints in accordance with the detail required for the proposed type of expansion.

### Packaging

CIKOseal APP is available in 1meter by 10 meters roll.

### Shelf life

CIKOseal APP has a shelf life of 12 months if stored in accordance with CIKO instructions.

### Storage

CIKOseal APP should be stored under enclosed shaded area at temperatures below 30°C.

The rolls are to be stored in an upright position avoiding stacking them one on top of the other to avoid possible deformations.

### 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

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- Waterproofing and damp proof coatings
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- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Adhesives and bonding agent
- Concrete repair materials
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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

