

CIKOstick Membrane-1

Cold Applied Self-Adhesive Bituminous waterproofing Membrane

Description

CIKOstick Membrane-1 is an elastomeric self-adhesive bituminous waterproofing membrane obtained from distilled asphalt modified with elastomeric resins SBS and special additives. The membrane is reinforced by fiberglass felt. The upper surface is covered by a HDPE film and the lower surface by a siliconized film which has to be removed during the application.

Characteristics

Bituminous compound

- Very good low and high temperature resistance
- Excellent self-adhesive properties
- Absolute water tightness
- Good resistance to acids and alkalis
- Resistant to static loading
- Good tensile strength and elongation
- Tear and wear resistant
- Perfect mechanical strength and performance

TECHNICAL CHARACTERISTICS			
PROPERTIES	TEST METHOD	UNIT	RESULTS
Roll length	ASTM D-5147	m	20 (±0.03)
Roll width	ASTM D-5147	m	1 (±2%)
Thickness	ASTM D-5147	mm	1.5 & 1.6 (±0.2)
Tensile strength (Lat./ Trans.)	ASTM D-638	N/mm ²	14.7/13.7
Elongation (Lat. /Trans.)	ASTM D-638	%	220/185
Tear Resistance (Lat. /Trans.)	ASTM D-1004	N/mm	350/320
Puncture Resistance	ASTM E 154	N	325
Adhesion to Primed Concrete	ASTM D1000	MPa	1.85
Adhesion to Self	ASTM D1000	MPa	1.85
Water Absorption	ASTMD-5147	%	0.14
Water Vapor Transmission @ 24 hrs	ASTM E 96	g/m ²	0.3
Flexibility at low Temperature	ASTM D-5147	°C	≤ -15

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 CIKO primer 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.

Take off the removable non-stick film, which is divided longitudinally, in one or more sessions, taking care to also remove the selvedge present on the upper side. Always secure the sheets mechanically at the side seams and butt joints.

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 in the opposite direction. Roll the surfaces

and in particular the joints, so as to improve the membrane's adhesion.

And then Position any discontinuous covering surfaces (slates, roof tiles, etc.).

Packaging

CIKostick Membrane-1 is available in 1meter by 20 meters roll.

Shelf life

CIKostick Membrane-1 has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKostick Membrane-1 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

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
- Adhesives and bonding agent
- Concrete repair materials
- 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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