

OVERVIEW

RANSAPP-SELF is a cold applied self-adhesive sheet membrane comprising of a SBS/Polymer modified bitumen layer bonded on to an outer surface of cross laminated polyethylene film of 200 Microns. The SBS/Polymer bitumen adhesive layer is protected on the underside by a silicone release paper which is removed just prior to the application of RANSAPP-SELF to the tack coat primed substrate. The applied membrane is then immediately protected from UV light and from mechanical damage during subsequent back filling by the application of Protection Board, or a sand/ cement screed. The waterproofing membrane shall be a 1.5 mm/2.0 mm or thick self-adhesive sheet membrane comprising of a SBS/polymer modified bitumen layer bonded on to an outer surface of polyethylene film. The polymer modified bitumen shall have an elongation in excess of 2000% when tested in accordance with ASTM D 146-04.

PROPERTIES

- Cold applied, self-adhesive and easy to apply.
- High elongation, flexibility & Fast application.
- High tensile strength, tear and puncture resistance.
- Capable of withstanding thermal movements.
- Does not undergo early aging and hence is a highly durable membrane if laid properly as per specification.
- No flame hazard and environment friendly.
- Good adhesion to primed concrete substrates.

AREAS OF USE

It is used as a cold applied waterproofing / damp proofing membrane in horizontal and vertical applications for protection of various substrates like concrete, masonry, GI, Aluminium, wood etc. in wide range of uses:

- Can be laid on any type GI, Aluminium and asbestos corrugated sheets due to stick on application.
- Medium to large roof slabs (domestic, commercial and industrial)
- Basements and raft slabs
- Roof Gardens where resistance to root is not required.

- External application for cut & cover tunnels.

INSTRUCTIONS FOR USE

The application temperature should be between 5°C to 50°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the waterproofing system are as follows:

Surface preparation

Concrete surfaces should be float finished and free from cavi-ties and projecting nibs. All surfaces shall be dry and free from frost, surface laitance and contamination.

Priming

RANSBITU-PMR must be applied to the substrate and allowed to dry until it is tack free, prior to the application of the membrane. All surfaces must be re-primed if left for more than 24 hours prior to the application of RANSAPP-SELF.

Application

Smooth transition should be made at wall/floor slab junctions using a sand/cement.

The membrane should be applied to the substrate having first removed the siliconised release paper, pressing the polyethylene film firmly ensuring that the adhesive.

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bitumen compound bonds continuously to the substrate with no air pockets.
Allow at least a 75mm edge and a 150mm end lap. All laps should be rolled firmly to achieve a good seal. End laps should be staggered.
On vertical or inclined surfaces, the membrane shall be laid from the lowest level upwards.
The membrane should be protected immediately after application in accordance with BS 8102: 1990 by using Protection Board or as appropriate with a sand/cement screed.

Limitations

Application temperature range: 5°C - 50°C.

For application below 15°C it may be necessary to slightly warm the back of the membrane should be stored at temperatures.
Above 20°C prior to application to facilitate ease of application and immediate bond to the substrate.
Wash all the tools and tackles with industrial solvent immediately after the application is completed.

HEALTH & SAFETY

Avoid prolonged contact with eyes and skin. For detailed information refer to relevant material safety data sheet.

PACKGING & STORAGE

RANSAPP-SELF is packaged as per given details:-

Nominal Roll Length	Nominal Width	Nominal thickness	Nominal Weight
15 Mtr	1 M	1.5 mm	2.3 kg/sqm
15 Mtr	1 M	2.0 mm	2.8 kg/sqm
RANSBITU-PMR (2.5-3.5m ² per litre)		20 kgs & 200 kgs	

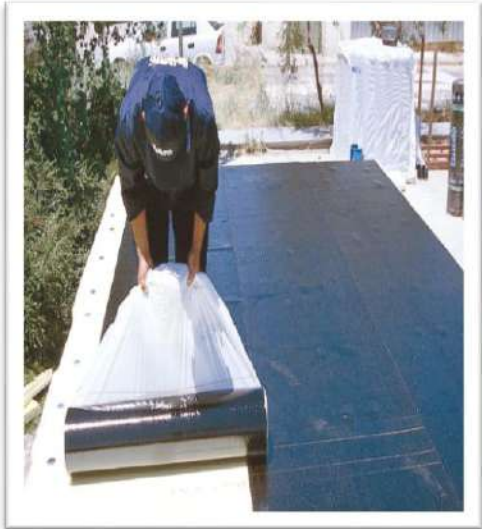
Store in a clean dry area protected from direct sunlight and extreme heat and cold.
Unopened condition rolls can be stored for 12 months. Use oldest material first.

TECHNICAL DATA

Product	Self-Adhesive Membrane		
PROPERTIES	RANSAPP-SELF (Cross Laminated)	RANSAPP-SELF (Glass fiber)	RANSAPP-SELF (Polyester)
Reinforcement (Also available -Without Reinforcement)	Cross Laminated High Density Polythene	Glass Fiber Mat	Non-Woven Polyester
Membrane Thickness (±5%) (UEAtc. M.O.A.T.30)	1.5/2.0 MM	1.5/2.0 MM	1.5/2.0 MM
Nominal Weight (min) (UEAtc. M.O.A.T.30)	2.3Kgs/2.8 Kgs/Sqmt	2.3Kgs/2.8 Kgs/Sqmt	2.3Kgs/2.8 Kgs/Sqmt
Tensile strength, Longitudinal(ASTM D5147) Transverse(ASTM D5147)	>4.0 N/mm ²	N/5 cm 400 300	N/5 cm 600 480
Elongation at Break % Longitudinal(ASTM D5147) Transverse(ASTM D5147)	>200%	350±100 % 350±100 %	350±100 % 350±100 %
Tear Resistance Longitudinal(ASTM D4073)/(ASTM D5147) Transverse (ASTM D4073)/((ASTM D5147)	>125 N/mm	180±50 N 180±50 N	270±50 N 270±50 N
Softening point, °C (ASTM D-36) (min)	115	115	115

Low temp. flexibility (cold bend @ -15 °C for 8 days)	No Cracking	No Cracking	No cracking
Lap Adhesion Strength/Adhesion to Primed Concrete (ASTM D-1000)	>1.8 N/mm	2.2 N/mm	2.2 N/mm
Puncture Resistance (ASTM E-154)	>200 N	300±50 N	300±50 N
Moisture Vapor Transmission (ASTM D-570)	<0.3g/m ² /24hrs	NA	NA
Crack Bridging (ASTM C-836)	>1.5mm	NA	NA
Resistance to Hydrostatic Pressure (DIN 1048)/(ASTM D-5385)	≥60m of water (6 bar)	NA	NA
Penetration @ 25 °C, dmm	NA	70 ±10	70 ± 10
Water absorption, % Wt. (672 hrs, @ 23 °C)	NA	<0.2	<0.2

PICTURES/IMAGES AT GLANCE



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