

RAINSHIELD SS

SELF ADHESIVE BITUMEN MEMBRANE

DESCRIPTION

Rainshield SS self adhesive waterproofing membrane consists of a self adhesive polymer modified bitumen coated on to a tough high density polyethylene film and protected on the other side by a release film.

ADVANTAGES

- Cold applied, self adhesive and easy to apply
- Excellent adhesion to vertical and horizontal surfaces
- Improved heat resistance
- Excellent resistance to chlorides, sulphates, alkalis and acids
- Good tear and puncture resistance
- Water and vapour proof

USES

Rainshield SS membranes are generally used as water proofing or damp proofing membranes intended for concrete protection. It may be used on vertical and horizontal surfaces and as damp proofing course for tanking below ground structures, subways and retaining walls.

APPLICATION GUIDELINES

Surface preparation

A smooth, regular and dry surface is always a must for good application. The substrate should be completely free of any protrusions or cavities. The presence of oily substances, frost or moisture should be completely avoided. Apply Bitukote Bitumen Primer at a rate of 4 – 6 S.M. per liter as a primer coat. The primer coat should be touch dry before application of the membrane.

Application

Application temperature should be between 50C to 450C. The following is only a guideline for installation.

1. Unroll only the required length and cut the piece to the desired shape and size.
2. Place the pieces of membrane on the area to be covered and check whether they match with the profile of the marked substrate.
3. Peel off the release film and carefully place the membrane so as to ensure a minimum of 75mm overlap and then smooth the membrane from the center to the edges in order to release entrapped air.
4. Place a Bituboard on top of the membrane soon after the application in order to prevent any damage from exposure to sunlight, backfilling etc.

HANDLING

Rainshield SS membranes are packed in loose corrugated boxes to avoid any damage during transit or on site. It can be unloaded by hand or any other convenient means but ensure the absence of any sharp or protruding edges within close proximity to avoid puncturing the membrane.

STORAGE

Rainshield SS range of membranes must be stored in a shaded area on wooden pallets neatly covered with fabric and secured to avoid exposure to sunlight.

Technical Data

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DISPOSAL

Rainshield SS is non hazardous, non inflammable material and therefore can be disposed of in any regular disposal area. It should be wrapped with paper, plastic or cloth before disposal as the modified material has a tendency to soften under heat and pressure.

HEALTH AND SAFETY

Rainshield SS contains a very tacky bitumen compound and during application can adhere to human skin. Bitumen stains can be removed by using a cloth dipped in a very light solvent. In case the affected area is sensitive, like eye, please contact physician for advise.

TECHNICAL PROPERTIES

PROPERTIES	VALUES	TEST METHOD
Roll length	10 m	UEAtc
Roll width	1 m	UEAtc
Thickness	1.5mm 2 mm	UEAtc
Softening Point (compound)	110C	ASTM D 36
Elongation (compound)	> 1500 %	ASTM D 412
Tensile strength (Membrane) Tensile strength (Film)	2500 KPa 23 MPa	ASTM D 638
Elongation (Unlimited failure of rubberized asphalt)	300 %	ASTM D 638
Adhesion strength Primed substrate Self	2.2N/mm 2.4N/mm	ASTM D 1000
Puncture resistance (Membrane)	220 N	ASTM E 154
Water absorption	After 24 hrs – 0.02 % After 35 days – 0.16%	ASTM D 570
Crack bridging ability	1mm	ASTM C 836
Water penetration	Pass	DIN 1048
Environmental resistance	Conforms	ASTM D 543

Above values are subject to 5-10% variation

11/05

Technical consultancy is available for optimum specification and performance.

Manufactured by



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