



BM Self R400

Geotextile Surfaced Self Adhesive Membrane

DESCRIPTION

BM SELF R400 is a cold applied self-adhesive, flexible, waterproofing and protection membrane made from rubber modified bitumen compound with 400 gsm geotextile surface on its upper side which serves as a protection layer and a detachable silicone film on the underside and selvedge.

PROPERTIES

The upper facing of non- reinforced waterproofing self-adhesive **BM SELF R400** membrane acts as a protection, having 400 gsm Geotextile. It offers dimensional stability, puncture resistance, breaking strength and temperature resistance. It has the following features:

- Cold applied, no heating required
- Combines waterproofing and protection
- High puncture and tear resistance
- Flexible and takes the contour of the surface easily
- Absorbs substrate movement ☒
- Does not contaminate ground water and Non-biodegradable

USES

- Waterproofing of swimming pools, tunnels, parking decks, etc.
- Waterproofing under layer for roof gardens
- Waterproofing and protection of underground structures
- Waterproofing structural concrete
- waterproofing job where high puncture resistance is required

APPLICATION

Installation:

1. Substrate preparation: The substrate must be smooth, clean, and free from oil/grease and defects. Presence of such irregularities may harm the membrane. Use a wire brush or broom and remove dirt, dust or any other contaminants.
2. Priming: Apply **BM PRIME SBD41** on the substrate and let it dry. Prime only the area which will be covered by the membrane in a particular working day. Repriming needs to be done if primed areas are not covered with the membrane within 24 hours. The primer should be applied by brush or roller at a rate of 0.3~0.4 Ltr/sq. depending on the porosity of the surface. Metal or plastic surface need no priming.
3. Laying of Membrane: - Fill all the angles with cement mortar or bitumen mastic. Use strips of **BM Slef DS** membrane to prepare angles, edges, corners, roof penetrations, horizontal joints for reinforcement and better adhesion of the membrane. Slowly and bit by bit peel back the release film over a width of about 30cm. at the start of the membrane. Lay the adhesive side on the substrate followed by firmly pressing it into contact. Uniformly peel back the release film further and simultaneously press the membrane firmly against the substrate using a cloth or soft brush starting at the center and going towards the edges so as

Plot 16, Shiv Industrial Infrastructure Park, Manjusar, Lamdapura, Nirma Canal Road, Savli-391775
Vadodara, Gujarat, India

Tel: +91-260-2221251 Fax: +91-260-2221786

Email: info@bitumag.co.in

www.bitumag.co.in



to impede the formation of bubbles leaving the last 100mm unstuck. Lay a 200mm wide strip of **BM Self DS** on the substrate and align it with **BM Self R400** so, that the unstuck portion can be sealed with **BM Self DS** strip after removing the release films. Adjacent rolls are aligned and overlapped with a minimum of 50mm on sides and 100mm at the ends. The overlap should be pressed firmly using a rubber roller after removing the silicone release film. Bitumen mastic to mastic seal is provided on all the overlaps so as to have leak-proof joints. **BM SELF R400** membrane should not be applied at a temperature below - 5°C. It should not be exposed to weathering and needs suitable protection.

TECHNICAL DATA

PROPERTIES	TYPICAL VALUE	TEST STANDARD
Coating asphalt	Rubber modified self-adhesive asphalt	-
Top Surfacing	400 gsm Geotextile	-
Softening point °C	105±5	ASTM D-36
Penetration, @25°C (dmm)	45±5	ASTM D-5
Low temperature cold flexibility, °C	≤-10	ASTM D-1970
Heat resistance @ 80°C	No flow	ASTM D-5147
Tensile strength (L/T), (N/5cm)	>680/520	ASTM D-5147
Elongation (L/T),(%)	40/50	ASTM D-5147
Elongation at Break , % (compound)	>300	ASTM D-412
Tear strength (L/T) (N)	500/420	ASTM D-5147
Chemical Resistance ,[pH]	2.5-11.5	ASTM D 543
Adhesion Strength ,N/mm, Primed surface	1.8	ASTM D-1000
Puncture resistance, (N)	>1500	ASTM E-154
Hydrostatic pressure@5bar (50m)	No leakage	BS EN 12390 (part 8)

All values given are subject to 8-15% tolerance

COVERAGE

Coverage differs depending on the surface condition:

BM SELF R400 - Flat Areas: 1.1m²/m² (Approx.) per layer with min.50mm Overlaps and min.100mm end laps. Average wastages: 2-3%.

BM PRIME SBD41 - Smooth Surface: 0.3-0.4 Ltr/m² (Approx.) will give a Dry film thickness of 100 microns.

STORAGE

The rolls must be stored vertically in a covered area, and should not be exposed to direct sunlight, UV and other sources of heat. The product is best used within 12 months from the date of production. Excessive exposure to sunlight and UV may lead to deterioration of the product quality.

HEALTH AND SAFETY

Due to presence of sticky compounds **BM SELF R400** membranes can stick to human skin. Use a soft cloth dipped in a suitable cleaner to remove the same.

SUPPLY

Nominal roll length: 8m; Nominal roll width: 1m; Nominal thickness: 3.5 mm & 4.0mm

Plot 16, Shiv Industrial Infrastructure Park, Manjusar, Lamdapura, Nirma Canal Road, Savli-391775
Vadodara, Gujarat, India

Tel: +91-260-2221251 Fax: +91-260-2221786

Email: info@bitumag.co.in

www.bitumag.co.in