



BM Self R250

Polyester Surfaced Self Adhesive Membrane

DESCRIPTION

BM SELF R250 is a cold applied self-adhesive, flexible, waterproofing and protection membrane made from rubber modified bitumen compound. It is equipped with **250 gsm non-woven polyester** on its upper side as protection layer and a detachable silicone film on the underside and selvedge.

PROPERTIES

BM SELF R250 is a non- reinforced waterproofing self-adhesive membrane. The upper facing is equipped with 250 gsm tough Polyester mat and acts as a protection offering 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
- Great flexibility, takes the contour of the surface easily
- Absorbs substrate movement
- Does not contaminate ground water, non-biodegradable

USES

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

APPLICATION

Installation:

1. Substrate preparation: The substrate must be smooth, clean, and free from oil/grease and defects. Existence of such irregularities in the substrate might damage 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 allow it to dry. Prime only the area which will be covered by the membrane in a particular working day. The areas which are not covered with the membrane within 24 hours of the application of the primer need repriming. The primer should be applied by brush or roller at a rate of 0.3~0.4 Ltr/sq.m depending on the porosity of the surface. Metal or plastic surface require no priming.
3. Laying of Membrane: - Use cement mortar or bitumen mastic to fill all the angles. Use strips of **BM Self DR** 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 and press it into contact. Uniformly peel back the release film further and simultaneously press the membrane firmly

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against the substrate using a cloth or soft brush starting at the center and going towards the edges so as to impede the formation of bubbles leaving the last 100mm unstuck. Lay a 200mm wide strip of **BM Self DR** on the substrate and align it with **BM Self R250** so, that the unstuck portion can be sealed with **BM Self DR** strip after the removal of the release films. Adjacent rolls are aligned and overlapped with a minimum of 50mm on the sides and 100mm at the ends. Use a rubber roller to firmly press the overlap after removing the silicone release film. Bitumen mastic to mastic seal is provided on all the overlaps to give leak-proof joints. **BM SELF R250** membrane should not be applied at a temperature below - 5°C. It should not be exposed to weathering and demands suitable protection.

TECHNICAL DATA

PROPERTIES	TYPICAL VALUE	TEST STANDARD
Coating asphalt	Rubber modified self-adhesive asphalt	-
Top Surfacing	250 gsm polypropylene polyester	-
Softening point °C	105±5	ASTM D-36
Penetration, @25°C (dmm)	50±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/mm ²)	860/620	ASTM D-882
Elongation at Break (L/T), % (compound)	300/300	ASTM D-882
Tear strength (L/T) (N)	450/400	ASTM D-1004
Hydrostatic pressure@5bar (50m)	No leakage	BS EN- 12390 (part B)
Lap Joint strength (N/mm)	2.0 – 2.5	ASTM D-1000
Puncture resistance, (N)	>1000	ASTM E-154
Hydrostatic pressure@5bar (50m)	No leakage	EN 12390 (part 8)

All values given are subject to 5-10% tolerance

COVERAGE

Coverage varies depending on the surface condition:

BM SELF R250 - 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. Do not expose the rolls 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 subsequently lead to the deterioration of the product quality.

HEALTH AND SAFETY

Presence of sticky compounds in **BM SELF R250** membranes can make it stick to the human skin. Use a soft cloth dipped in a suitable cleaner to remove the same.

SUPPLY

Nominal roll length: 10m; Nominal roll width: 1m; Nominal thickness: 2.1mm

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