



BM Self P

Polyester Reinforced Self Adhesive Membrane

DESCRIPTION

BM SELF P is a cold applied self-adhesive, flexible, waterproofing and sealing membrane. It is made from rubber modified bitumen compound and is equipped with non-woven **spun –bonded polyester reinforced** tear resistant, high density polythene sheet on its upper side and a detachable silicone film on the underside.

PROPERTIES

The upper facing of non-woven polyester reinforced waterproofing self-adhesive **BM SELF P** acts as high strength protection. The high density polyethylene film, offers dimensional stability; puncture resistance, breaking strength and temperature resistance. It has the following features:

- Cold applied, no heating required
- Simple, quick and clean to install
- Permanent flexibility and protection against water
- Effective barrier for both water and vapor
- Absorbs substrate movement
- Root resistant & Tear resistant
- Safe for ground water

USES

- Provides waterproofing in general, where the use of fire/ flame is not possible
- Provides waterproofing to structural concrete and masonry walls
- Provides waterproofing and protection to underground structures
- Provides waterproofing to inverted roofing systems
- Waterproofing of balconies, bathrooms, swimming pools, tunnels, etc.

APPLICATION

Installation:

1. Substrate preparation: The substrate must be smooth, clean, and free from oil/grease and defects. Substrate with such irregularities may cause damage to the membrane. Remove dirt, dust and any other contaminants using a wire brush or a broom.
2. Priming: Apply **BM PRIME SBD41** on the substrate and let dry. Prime only the area which will be covered by the membrane in a particular working day. The area needs repriming if not covered within 24 hours. The primer should be applied by brush or roller at a rate of 0.3~0.4 Ltr/sq.m. This depends on the porosity of the surface. Metal or plastic surface need no primer.
3. Laying of Membrane: - Use cement mortar or bitumen mastic to fill up the angles. Use strips of **BM SELF P** 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 concurrently press the membrane firmly against the substrate using a cloth or soft brush starting at the center and going towards the edges so as

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to impede the formation of bubbles. Adjacent rolls are aligned and overlapped with a minimum of 50mm on the sides and 100mm at the ends. The overlap should be pressed solidly using a rubber roller after the removal of the silicone release film. **BM SELF P** 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	-
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
Tear resistance (L/T), (N)	150/135	ASTM D-4073
Adhesion to concrete, N/mm	>1.8	ASTM D-1000
Adhesion to self , N/mm	>1.8	ASTM D-1000
Puncture resistance (N)	Min 225	ASTM E-154
Water absorption @24hrs @35days	<0.15% <0.90%	ASTM D 570
Crack bridging	3mm	ASTM C836:1995
Hydrostatic pressure @ 6 bar (60m)	No Leakage	ASTM D 5385
Moisture vapor Transmission Rate	<0.3g/m ²	ASTM E96

All values given are subject to 5-10% tolerance

COVERAGE

Coverage differs depending on the surface condition:

BM SELF P - 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. Keep the rolls away from 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 deterioration of the product quality.

HEALTH AND SAFETY

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

SUPPLY

Nominal roll length: 10m, 15m, 20m; Nominal roll width: 1m; Nominal thickness: 1.6mm,1.8mm, 2mm, 2.5mm

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