

BM SEAL

SBS Modified Torch on Membrane

DESCRIPTION

BM SEAL is a superior grade bituminous waterproofing membrane manufactured by blending a mixture of bitumen and **SBS (Styrene Butadiene Styrene)** polymers are reinforced with non-woven polyester mat having thermo fusible polyethylene film on both sides. They have phenomenal waterproofing qualities alongside exquisite mechanical properties such as tensile strength, tear strength and puncture resistance. They provide good UV resistance and are quite durable.

SPECIAL CHARACTERISTICS

- Positive barrier to water and dampness.
- Good dimensional stability under tension.
- High Puncture and fatigue resistance.
- Good flexibility. Can accommodate structural movements.
- Resistance to water borne chemicals.
- High tensile and tear strength.
- Excellent adhesion and seam integrity.

FIELDS OF APPLICATION

BM Seal SBS membrane designed for use in single or multi-layer waterproofing systems. This membrane is typically used in areas such as Concrete foundations & Footings, Basements, Pileheads, Swimming pools and water retaining exposed structures, tunnels and wet areas applications like (kitchens and bathrooms).

APPLICATION

The surface to be waterproofed should be clean, dry, firm without undulations and free of any surface imperfection.

Apply a coat of **BM Prime SBD41** solvent based primer on the prepared surface and leave it to dry prior to membrane application.

The membranes are bonded to the surface by directly bringing in contact using propane/butane gas. The laying should start from the lowest point of the roof and overlapping should be done so as to shed water. Don't overheat as this may damage the reinforcement. The overlaps of adjacent rolls should be staggered. The side laps should at least be 5cm and end laps should at least be 10cm. Carefully prepare in advance the details such as corners, edges and joints by torching and fixing strips of **BM Seal** in place. Use a hand towel to dress the overlaps and thus ensure a perfect bonding without any opening.

TECHNICAL DATA

Properties	Typical Values				Test Standard
Reinforcement Polyester g/m ²	160 g/m ²	180 g/m ²	200 g/m ²	250 g/m ²	
Coating asphalt	SBS rubber modified asphalt	SBS rubber modified asphalt	SBS rubber modified asphalt	SBS rubber Modified asphalt	
Softening point °C	150±5	150±5	150±5	150±5	ASTM D-36
Penetration @25°C, (dmm)	20±5	20±5	20±5	20±5	ASTM D-5
Low temperature cold flexibility@ 0°C	-3 to -10	-3 to -10	-3 to -10	-3 to -10	ASTM D-5147
Heat resistance @ 135°C	No flow	No flow	No flow	No flow	ASTM D-5147
Tensile strength (L/T) (N/5cmp)	760/560	820/650	1000/800	1200/1100	ASTM D-5147
Elongation at Break (L/T) (%)	>35/50	>40/50	>50/55	>50/55	ASTM D-5147
Tear resistance (L/T) (N)	>300/200	>350/250	>400/350	>500/450	ASTM D-5147 / D4073
Puncture resistance (N)	>475	>475	>500	>500	ASTM E-154
Resistance to Static/Dynamic	Static- L ₄ /Dynamic - I ₄	UEAtc 5.1.9/UEAtc 5.1.10			
Lap Joint strength (N/5cm)	Same as membrane	Same as membrane	Same as membrane	Same as membrane	EN 12317
Water absorption %wt. @ 23°C, 24 hrs.	< 1	< 1	< 1	< 1	ASTM D-5147
Impermeability to water	Pass	Pass	Pass	Pass	EN 1928
Dimensional stability (%)	< 1	< 1	< 1	< 1	ASTM D6222

All values given are subject to 8-15% tolerance

COVERAGE

Coverage differs depending on the surface condition:

BM Seal

Flat Areas : 1.1m²/m² (Approx.) per layer with 5cm Overlaps and 10 cm 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.

STANDARDS

BM Seal membranes are designed in accordance with the performance requirements and tolerance level of UEAtc (European Union Technical Agreement) and ASTM (American Society for Testing and Materials) and strictly comply to them.

STORAGE & SHELF LIFE

The rolls must be stored vertically in a covered area. Exposure to direct sunlight, UV and other sources of heat should be avoided. The membrane is best used within 12 months from the date of production.

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HEALTH AND SAFETY

When these membranes are torched to melt, they form a sticky compound that can stick to human skin. If it is in hot condition then the same shall be cooled by applying plenty of water and can later be removed by using a soft cloth dipped in a suitable cleaner. If, the burn is deep, an immediate medical help is suggested.

SUPPLY

Nominal roll length: 10m;

Nominal roll width: 1m;

Nominal thickness: 3mm, 4mm, 5mm