

**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, which are reinforced with non-woven polyester mat having thermos-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.

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

**Recommended Applications**

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

**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.

**Supply**

Nominal roll length: 10m

Nominal roll width: 1m

Nominal thickness: 3mm, 4mm, 5mm

**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.

**Coverage (subject to surface condition):**

**BM SEAL:** Flat Areas: 1.1m<sup>2</sup>/m<sup>2</sup> (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/m<sup>2</sup> (Approx.) will give a dry film thickness of 100 microns.

**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.

**Health & Safety**

Due to the presence of sticky compounds the membranes can stick to human skin during the process of torching. Apply plenty of cold water if it is in hot condition. Use a soft cloth dipped in a suitable cleaner to remove it later. Seek immediate medical help in case of a deeper burn.

### Technical Specification

PROPERTIES	Typical Value	Test Method
Reinforcement Polyester ( g/m <sup>2</sup> )	180 g/m <sup>2</sup>	-
Coating asphalt	SBS Rubber modified Asphalt	-
Softening point ( °C )	>110	ASTM D-36
Penetration @25°C ( dmm )	20 to 35	ASTM D-5
Low temperature cold flexibility @ 0°C	-3 to -10	ASTM D-5147
Heat resistance @ 100°C	No flow	ASTM D-5147
Tensile strength ( L/T ) ( N/5cm )	760/560	ASTM D-5147
Elongation at Break ( L/T ) ( % )	40/45	ASTM D-5147
Tear resistance ( L/T ) ( N )	>400/300	ASTM D-5147 / ASTM D-4073
Puncture resistance ( N )	>550	ASTM E-154
Resistance to Static / Dynamic	Static- L <sub>4</sub> / Dynamic -I <sub>4</sub>	UEAtc 5.1.9 / UEAtc 5.1.10
Lap Joint strength ( N/5cm )	Same as membrane	EN 12317
Water absorption %wt. @ 23°C ( 24hrs )	< 1	ASTM D-5147
Impermeability to water	Pass	EN 1928
Dimensional stability ( % )	< 1	ASTM D-6222

**For professional use only. Keep out of reach of children.**

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