

### TECHNICAL DATA SHEET

## **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, 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 multilayer waterproofing systems. This membrane is typically used in areas such as Concrete foundations, Footings, Basements, Pileheads, 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%.

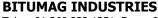
BM Prime SBD41: Smooth Surface: 0.3-0.4 Ltr/m<sup>2</sup> (Approx.) will give a dry film thickness of 100 microns.

#### 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.



Tel.: +91 260 222 1251, Fax: +91 260 222 1786 Plot 16, Shiv Industrial Infrastructure Park, Manjusar, Lamdapura, Nirma Canal Road, Savli-391775, Vadodara, Gujarat, India. Email: info@bitumag.co.in, Web: www.bitumag.co.in





# **BM SEAL**

### **Technical Specification**

PROPERTIES	Typical Value	Test Method
Reinforcement Polyester ( g/m² )	180 g/m²	-
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 -l <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.

This Information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided especially that contained in our safety data and technical information sheets - and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility.

### **BITUMAG INDUSTRIES**

Tel.: +91 260 222 1251, Fax: +91 260 222 1786 Plot 16, Shiv Industrial Infrastructure Park, Manjusar, Lamdapura, Nirma Canal Road, Savli-391775, Vadodara, Gujarat, India. Email: info@bitumag.co.in, Web: www.bitumag.co.in

