



## **BM Torch**

**APP Modified Torch on Membrane.**

### **DESCRIPTION**

**BM Torch** membranes, manufactured with high quality bitumen and specialized polymers (**APP-Atactic polypropylene**) mixed together to obtain excellent heat and waterproofing properties. They have good UV resistance and are quite durable. The membrane has excellent mechanical properties and is highly resistant to fatigue and is used in structures exposed to high temperatures. The elastomeric waterproofing membranes is coated on to a dimensionally stable reinforcement core of non-woven spun bond polyester rot-proof fabric.

### **SPECIAL CHARACTERISTICS**

Positive barrier to water and dampness.  
Good dimensional stability under tension.  
High Puncture and fatigue resistance.  
Good flexibility. Can accommodate structural movements.

### **FIELDS OF APPLICATION**

**BM Torch** membranes are commonly used both in single and multi-layer waterproofing systems on the following structures.

- Inverted Roofs and parapets
- Bridges & tunnels
- Concrete foundations, Basements and isolated footings
- Sunken slabs
- Terraces, balconies and patios.

### **APPLICATION**

The surface to be waterproofed should be clean, dry, firm without undulation. Any form of surface imperfection is undesirable.

Apply a coat of **BM Prime SBD41** solvent based primer on the prepared surface. Allow the primer to dry before membrane application.

Use propane/butane gas for binding the membranes to the surface. Start laying from the lowest point of the roof form an overlap so that the water can be shed. Excessive heating may damage the reinforcement. Stagger the overlaps of the adjacent rolls. The side laps should at least be 0.5cm and end laps should at least be min 0.10cm. Carefully torch and fix the strips of **BM Torch** to prepare the details such as corners, edges and joints in advance. Use a hand towel to dress the overlap to ensure perfect bonding without any opening.



## TECHNICAL DATA

PROPERTIES	TYPICAL VALUES				TEST STANDARD
	160 g/m <sup>2</sup>	180 g/m <sup>2</sup>	200 g/m <sup>2</sup>	250 g/m <sup>2</sup>	
Reinforcement Polyester, g/m <sup>2</sup>					
Coating asphalt	APP polymer modified Asphalt	APP polymer modified asphalt	APP polymer modified asphalt	APP polymer 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	No crack	No crack	No crack	No crack	ASTM D-5147
Heat resistance @ 135°C	No flow	No flow	No flow	No flow	ASTM D-5147
Tensile strength ( L/T) ( N/5cm)	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 / D 4073
Puncture resistance ( N)	>475	>475	>500	>500	ASTM E-154
Resistance to Static/Dynamic	Static- L <sub>4</sub> /Dynamic -I <sub>4</sub>	Static- L <sub>4</sub> /Dynamic -I <sub>4</sub>	Static- L <sub>4</sub> /Dynamic -I <sub>4</sub>	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	Same as membrane	Same as membrane	Same as membrane	EN 12317
Water absorption %wt. @ 23°C 24hrs	< 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 5-15% tolerance



## COVERAGE

Coverage differs depending on the surface condition:

BM Torch

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.

## STANDARDS

**BM Torch** membranes comply with the performance requirements and achieve tolerance level of UEAtc (European Union Technical Agreement) and ASTM (American Society for Testing and Materials).

## STORAGE & SHELF LIFE

The rolls must be stored vertically in a covered area. Do not expose to direct sunlight, UV and other sources of heat. Use the membrane within shelf life from the date of production for the best use.

## HEALTH AND 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.

## SUPPLY

Nominal roll length: 1m x 10m;

Nominal roll width : 1m;

Nominal thickness: 1.5mm, 2 mm, 3mm, 4mm, 5mm