

## Specification for SBS Bitumen Membrane

**1. PRODUCT DESCRIPTION** SBS Bitumen Membrane is a high-performance waterproofing membrane modified with Styrene-Butadiene-Styrene (SBS) elastomers to enhance flexibility, durability, and resistance to environmental conditions.

### 2. MATERIAL COMPOSITION

- **Bitumen Content:** Modified bitumen with SBS
- **Polymer Modifier:** Styrene-Butadiene-Styrene (SBS)
- **Reinforcement:** Polyester, Fiberglass, or Composite Mat
- **Surface Finish:** Mineral granules, Sand, or Polyethylene Film
- **Bottom Finish:** Polyethylene Film or Sanded

### 3. DIMENSIONS & WEIGHT

- **Thickness:** 3 mm, 4 mm, or 5 mm
- **Width:** 1 meter
- **Length:** 10 meters per roll
- **Weight:** Varies based on thickness and reinforcement type

### 4. MECHANICAL PROPERTIES

- **Tensile Strength (Longitudinal & Transverse):**
  - Polyester Reinforced:  $\geq 800$  N/50mm
  - Fiberglass Reinforced:  $\geq 500$  N/50mm
- **Elongation at Break:**
  - Polyester Reinforced:  $\geq 35\%$
  - Fiberglass Reinforced:  $\geq 2\%$
- **Tear Resistance:**  $\geq 150$  N

### 5. THERMAL & ENVIRONMENTAL PROPERTIES

- **Softening Point:**  $\geq 120^{\circ}\text{C}$
  - **Cold Flexibility:** Up to  $-15^{\circ}\text{C}$
  - **Heat Resistance:** No flow or deformation at  $100^{\circ}\text{C}$
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- **UV Resistance:** Excellent (Mineral-coated version)
- **Water Absorption:** < 1%

## 6. WATERPROOFING PERFORMANCE

- **Water Impermeability:** 100% waterproof
- **Hydrostatic Pressure Resistance:**  $\geq 60$  kPa

## 7. APPLICATION METHOD

- **Installation:** Torch-applied, Cold Adhesive, or Mechanically Fixed
- **Surface Preparation:** Clean, dry, and primed surface recommended
- **Overlap:** 10 cm (longitudinal) and 15 cm (transverse)

## 8. RECOMMENDED USES

- Roofing waterproofing
- Foundations and basements
- Bridges and tunnels
- Parking decks and terraces
- Industrial and residential buildings

## 9. STORAGE & HANDLING

- Store in an upright position
- Keep in a dry and ventilated area
- Avoid prolonged exposure to direct sunlight
- Do not stack rolls more than two layers high

## 10. STANDARDS & COMPLIANCE

- Complies with ASTM D 6164, EN 13707, and ISO 9001 standards

## 11. PACKAGING

- Rolls wrapped in polyethylene film
- Labels indicating product type, thickness, and batch number

For more information, please contact ATDM Co. or visit [www.atdmco.com](http://www.atdmco.com).