

SBS Modified Bitumen Elastomeric Waterproofing roll on Membrane

SBS Waterproofing Membrane

SBS

·Product Overview

SBS elastomer modified asphalt waterproofing membrane is made by using SBS (styrene-butadiene-styrene)
thermoplastic elastomer modified asphalt as the coating material. The carrier can be high-quality polyester mat, fiberglass
mat, or glass-reinforced polyester mat. The surfacing materials include fine sand, mineral granules, PE film, and aluminum film. The membrane is produced through specialized mechanical mixing and milling.

·Specifications

Carrier types: polyester (PY), fiberglass (G), and glass-reinforced polyester (PYG).
Upper surface release material: PE film, fine sand (S), or mineral granules (M). Lower surface release material: fine sand (S) or PE film.
Mechanical properties: Type I and Type II.
Standard width: 1000 mm.

·Applications

Roofing waterproofing for industrial, commercial, and residential buildings.
Below-grade waterproofing and damp-proofing for industrial and residential buildings, including indoor swimming pools and fire water tanks.
Civil engineering projects: subways, tunnels, bridge decks with concrete paving, wastewater treatment plants, and landfills.
Water conservancy facilities: canals and reservoirs.

·Product Features

Long-fiber polyester mat membranes:

1. Combines high-performance long-fiber polyester mat with SBS modified bitumen – an excellent all- around membrane.
2. Forms a high-strength waterproof layer with strong resistance to water pressure.
3. High tensile strength and elongation – adapts well to substrate shrinkage, deformation, and cracking.
4. Excellent high and low temperature resistance – suitable for both hot and cold climates, especially cold regions.
5. High-strength polyester mat offers strong puncture, tear, and fatigue resistance.
6. Good resistance to corrosion, mold, and weathering.

7. Easy torch application year-round – hot-air welded seams are reliable and durable.

◎**Alkali-free fiberglass mat membranes:**

1. Combines an economical carrier with high-performance SBS modified bitumen.
2. High tensile strength and excellent high/low temperature resistance.
3. Resistant to corrosion, mold, and weathering – easy to install

◎ **Glass-reinforced polyester mat membranes:**

Can be installed using mechanical fastening – safe and environmentally friendly. Offers better dimensional stability.

·Performance

Elastomer / plastic modified asphalt waterproofing membrane complies with GB18242-2008 standard.

No .	Parameter		Index				
			Ⅰ		Ⅱ		
			PY	G	PY	G	PYG
1	Soluble content （g/m 2 ）	3mm	2100				-
		4mm	2900				-
		5mm	3500				
		Test phenomenon	-	Carrier non-combustible	-	Carrier non-combustible	-
2	Heat resistance	℃	90		105		
		≤ mm	2				
		Test phenomenon	No flow, no drip				
3	Low temperature flexibility℃		-20		-25		
4	Water impermeability (30min)		0 . 3 Mpa	0 . 2 Mpa	0 . 3 Mpa		
5	Tensile strength	Max peak (N/50mm) ≥	500	350	800	500	900
		Secondary peak (N/50mm) ≥	-	-	-	-	800
		Test phenomenon	During stretching, partial cracking of asphalt coating or separation from carrier occurs on some specimens				
6	Elongation	At max peak (%) ≥	30	-	40		-
		At secondary peak(%) ≥	-		-		15
7	Mas s increase after water immersion （ %） ≤	PE 、 S	1.0				
		M	2 .0				
		Tensile retention (%) ≥	90				

8	Heat aging	Elongation retention (%) ≥	80					
		Low temperature flexibility (℃)	- 1 5		-20			
			no cracks					
		Dimensional change (%) ≤	0 .7	-	0 .7	-	0 .3	
		M a s s l o s s (%) ≤	1.0					
9	Oil migration	Sh e et s ≤	2 .0					
10	Peel strength of joint (N/mm) ≥		1.5					
11	Nail tear strength a (N) ≥		-				300	
12	Mineral granule adhesion b (g) ≤		2 .0					
13	Lower asphalt coating thickness c(mm) ≥		1.0					
14	Accelerated weathering	Appearance	no slip , flow , drip					
		Tensile retention (%) ≥	80					
		Low temperature flexibility (℃)	- 1 5		-20			
			no cracks					

a Only for membranes used in single-layer mechanical fastening.
b Only for mineral-surfaced membranes.
c Only for torch-applied membranes.