

## SBS Modified Bitumen Waterproof Membrane

### Description

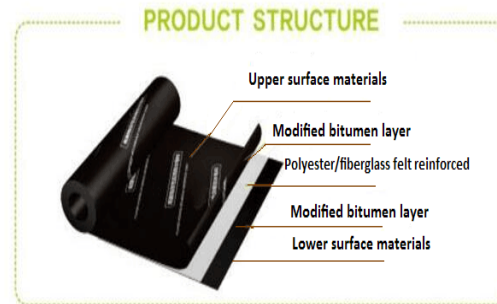
The bitumen are modified by thermoplastic elastomer (Styrene Butadiene Styrene), then reinforced with polyester felt/fiberglass felt or fiberglass reinforced with polyester felt, finished with minerals/sands/PE film/aluminum foil on the upper surface and polyethylene film/sands on the lower side of the membrane.

### Features

- ♦ Excellent waterproofing and aging resistance, will not decay
- ♦ Superior impermeability, cold flexibility and elasticity
- ♦ Excellent elongation and recovery properties
- ♦ Strong puncture resistance and adaptability to deformation and cracks
- ♦ High tensile and bonding strength to self and substrates
- ♦ Pollution free, no toxic, easy use

### Uses

- ♦ Roofs, underground structures of residential and commercial buildings
- ♦ Parking lots, reservoirs, swimming pools, sewage treatment plants
- ♦ Highway, airports, railway, bridges, tunnels



### Products specification

Reinforcement	Thickness(mm)	Width(mm)	Upper surface materials	Lower surface materials
Polyester felt (PY)	3,4,5	1000	Aluminum foil Polyethylene film (PE) Fine sands (S) Minerals (M)	Fine sands (S) Polyethylene film (PE)
Fiberglass felt (G)	3,4			
Fiberglass felt+polyester felt (PYG)	5			

### Technical Data: Executive Standard GB18242-2008

No	Item		Index				
			I		II		
			PY	G	PY	G	PYG
1	Soluble content , g/m <sup>2</sup> ≥	3mm	2100			-	
		4mm	2900			-	
		5mm	3500			-	
2	Thermal resistance	°C	90	105			
		mm≤	2.0				
		Test phenomenon	No drift, no flow, no dripping				
3	Low temperature flexibility, °C		-20	-25			
			No crack				
4	Water impermeability, MPa at 30min		0.3	0.2	0.3		
5	Tension	Tension at maximum peak, N/50mm≥	500	350	800	500	900
		Tension at second peak, N/50mm≥	-	-	-	-	800
		Test phenomenon	No cracks or separate				
6	Elongation	Elongation at maximum peak, %≥	30	-	40	-	
		Elongation at second peak, %≥	-	-	-	15	
7	Water absorption, %≤	PE, S	1.0				
		M	2.0				

8	Thermal ageing	Retention of tension, % $\geq$	80			
		Retention of elongation, % $\geq$	80			
		Low temperature flexibility, °C	-15	-20		
			No crack			
		Dimension change rate, % $\leq$	0.7	-	0.7	-
Mass loss rate, % $\leq$	1.0					
9	Oil permeability	Pieces, $\leq$	2			
10	Seam peel strength, N/mm $\geq$	1.5				
11	Nail shank tearing, N $\geq$	-			300	
12	Adhesivity of mineral granules, g $\leq$	2.0				
13	Asphalt thickness on the lower side, mm $\geq$	1.0				
14	Accelerated weathering	Appearance	No drift, no flow, no dripping			
		Retention of tension, % $\geq$	80			
		Low temperature flexibility, °C	-15	-20		
No crack						

**Note: PY – Polyester felt G – Fiberglass felt PYG – Fiberglass felt + polyester felt**

### Packing

Roll size: 1m x 10m, 1m x 15m, 1m x 7.5m  
Rolls per pallet: 25 rolls/pallet more or less

### Application instructions

**Surface Preparation:** Substrates need to be clean, smooth, dry (Moisture <9%), no grit and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm width, shall be properly filled with an acceptable fill material and level it.

**Priming:** Prior to membrane laying, substrate treating agent need to be brushed evenly and completely cover all laying places.

**Application:** For adhesion between membrane and substrate or membranes, it can use hot melt method or cold adhesion method. According to application designs and specific applied parts, it can be applied by fully adhered method, strip adhered method and border adhered method. There should be side laps of 100mm and end laps of 150mm. Overlaps shall be sealed by torch, a thorough inspection is required after application to insure there is no air bubble, no falling away and etc.

### Storage

Inclination and lateral placement during transportation should be avoided. Be stored in well-ventilated places protected from sunlight and raining. The temperature in stored areas can not be higher than 50° C. It can not be put in more than two levels. If packed by cartons, it can not be put in more than five levels.

The normal shelf life is 1 year.

### Safety precautions

Do not work in a rainy or snowy day, or heavy wind (above 5 grade); Unsuitable for installation when ambient temperature below 0°C.

If it rains or snows in the construction, protective action to the laid membrane is a must.

Safety protection facilities and articles shall be well prepared, fire-fighting equipment shall be deployed according to regulations.