

# SBS ROOT PUNCTURE RESISTANT WATERPROOF MEMBRANE (CHEMICAL ROOT RESISTANCE)



## Description

Root puncture-resistant modified asphalt waterproof membrane is a kind of waterproof membrane with long-fiber polyester fiber felt as the waterproof membrane base, polymer-modified asphalt added with imported chemical root inhibitors as the coating layer, and polyethylene film as the isolation material. The modified asphalt membrane has long-term resistance to plant root (or rhizome) puncture, strong adhesion, good stability, low temperature flexibility and heat resistance, chemical corrosion resistance and radiation resistance.

## Usage

- Planting roof engineering .
- Underground planting roof waterproofing engineering.

## Packing

SBS root puncture resistant waterproof membrane (chemical root resistance) is available in:

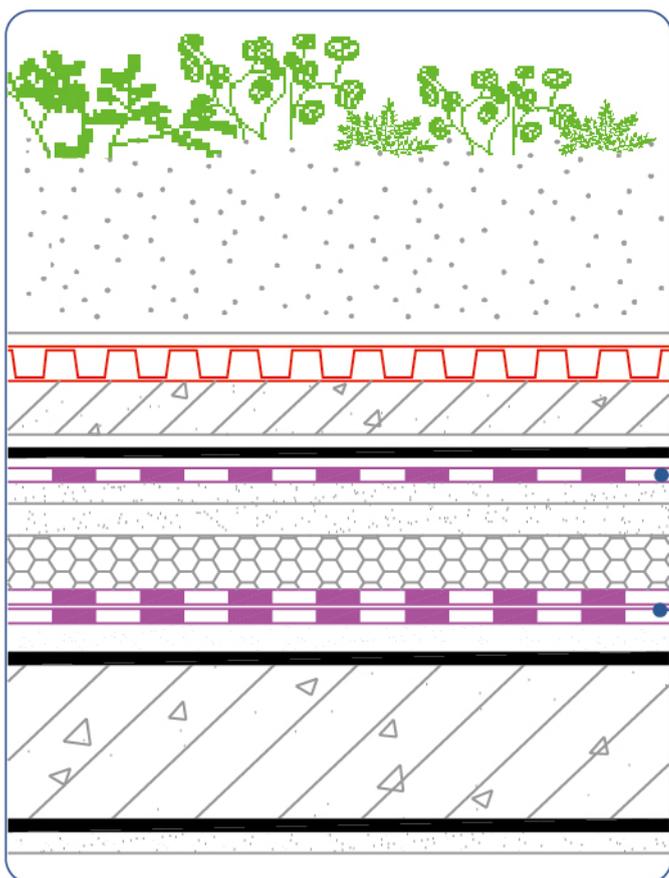
4.0mm thickness

1mx10m/roll

## Advantages

Radiation resistance, strong adhesion, good stability, good heat resistance, good low-temperature flexibility, chemical resistance, and long-term resistance to plant roots (or rhizomes) puncture performance.

### Root puncture resistance hierarchy diagram for planting roofs



Planting soil: thickness according to engineering design.

Filter layer: according to engineering design.

Vegetation layer.

Water storage and drainage layer: water storage and drainage board.

Protective layer: C20 fine aggregate concrete with a thickness of  $\geq 50$ , equipped with bidirectional steel mesh inside.

Isolation layer: dry laid asphalt felt.

• Waterproof layer 1: 1.4.0 thick root puncture resistant self-adhesive polymer modified asphalt waterproofing membrane (polyester tire).

Leveling layer: according to engineering design.

Protective layer: C20 fine aggregate concrete with a thickness of  $\geq 50$ , equipped with bidirectional steel mesh inside.

Slope finding layer: according to engineering design (canceled during structural slope finding).

Insulation layer: Material and thickness according to engineering design.

• Waterproof layer 2: 3.0 SBS elastomer modified asphalt waterproofing membrane/3.0 thick self-adhesive polymer modified Asphalt waterproof membrane (polyester tire)+2.0 thick non curing rubber asphalt waterproof coating.

Leveling layer: 20 thick M15 cement mortar (leveling layer can be cancelled when the structural layer is used for leveling).

Structural layer: reinforced concrete roof panel.

### Application

**a** Grass-roots level should be solid, flat, clean, dry (moisture content of not more than 8%), the surface without dust and debris and grease. Flat facade junction of the Yin and Yang angle should be made into a rounded arc or 45 slope angle.

**b** Membrane application should be brushed before the grass-roots level treatment agent to reduce the surface of the floating ash to enhance bonding, brushing should be uniform, shall not miss the brush or bottom, Until grass-roots level to reach the degree of dryness (generally to the non-stick) before the construction of the next membrane.

**c** Paving waterproof layer, should be in advance to determine the location of the paving of the membrane first unfolding, adjust the paving part and then use the hot melt gun and coil and grass-roots level of the corner of the uniform heating, slowly forward paving, hot melt side of the paving side of the roll, to exclude the air, bonding tight, paving membrane should be flat, straight, lap size is correct, shall not be twisted.

**d** Use a spray gun to fully heat-melt the asphalt coating layer on the bottom surface of the upper roll and the upper surface of the lower roll at the overlapping edges, and use a pressure roller to compact it tightly to ensure that the asphalt between the rolls at the overlapping edges is densely fused, and that molten asphalt is squeezed out from the edge by 5-8mm to form a uniform asphalt strip.



### Limitation

- Not subject to traffic and must be protected by protective screed or polystyrene board.
- Not recommended for installation during rainy days or on stagnant water conditions.

### Safety precautions

We recommend using protective gloves during installation. SBS elastomer modified asphalt waterproofing membrane should be lifted by two site personnel. There shall be sufficient safety protective facilities in construction site, place firefighting devices according to stipulations.

### Technical Index

Standard: GB/T 35468-2017

NO.	Items	Index	
1	Outlook	Smooth, no holes	
2	Pull (N/50mm)	Longitudinal	≥800
		Transverse	
3	Maximum peak elongation%	Longitudinal	≥40
		Transverse	
4	Heat resistance, 105°C	No flowing, dripping, slipping ≤2 mm	
5	Low Temperature Flexibility(-25°C,1h)	No cracks	
6	Impermeability(0.3 MPa, 30 min )	Impermeable	
7	Oil permeability ≤	2	
8	Soluble content ( g/ m <sup>2</sup> )	≥2900	
9	Area m <sup>2</sup> / roll	10	

## Technical support

For more information, alternative applications or alternative proposals, please contact our Technical Department at the email address below.

## Storage and transportation

During transportation and storage, products of different types and specifications should be stacked separately and should not be mixed. Avoid sunshine and rain, pay attention to ventilation. Storage temperature should not be higher than 45 °C, membrane storage height of no more than five layers of flat storage, vertical storage in a single layer of stacking. Prevent tilting or side pressure during transport. Under normal storage and transport conditions, the shelf life is 1 year.

## Contact us

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