

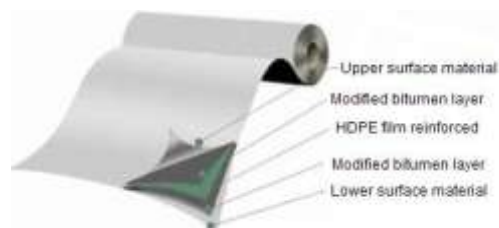
## Polymer Modified Bitumen Anti-root HDPE Reinforced Waterproof Membrane

### Description

The polymer modified bitumen anti-root waterproof membrane is produced by using premium raw materials and high efficient anti-root additives, reinforced with HDPE film, finished with PE film on the upper and lower surfaces. The excellent anti-root, tension, elongation, and anti-corrosion abilities make it widely to be used at vibration and deformation buildings, acidic and alkaline environments, especially at many civil and industrial projects where it is necessary to prevent the aggression of plant growth.

### Features

- ♦ Superior impermeability and cold flexibility, elasticity and compactness
- ♦ Excellent elongation and recovery properties, anti-corrosion and aging resistance
- ♦ Pollution free, no toxic, no influence on plants growth easy to use



### Uses

- ♦ Excellent puncture resistance and adaptability to deformation and cracks,
- ♦ Roof gardens, planting roofs, underground backfilled structures of residential and commercial buildings
- ♦ Parking lots, retaining walls, plant boxes

### Products specification

Reinforcement	Thickness(mm)	Width(mm)	Length (m)	Lower/Upper surface materials
HDPE film	4	1000	10	Polyethylene film (PE)

### Technical Data: Executive Standard GB18967-2009

No	Item		Index	
1	Tensile properties	Tension, N/50mm $\geq$	longitudinal	400
			transverse	
		Elongation at break, % $\geq$	longitudinal	120
			transverse	
2	Thermal resistance, 90°C $\times$ 2h		No dripping, no blister	
3	Low temperature flexibility, -20.°C		No crack	
4	Imperviousness, 0.4MPa *30min		Impermeable	
5	Dimensional stability, 90°C, % $\leq$		2.5	
6	Bitumen layer thickness at lower side, mm $\geq$		1.0	
7	Thermal ageing	Tension at longitudinal direction, N/50mm $\geq$	400	
		Elongation at longitudinal direction break, % $\geq$	120	
		Low temperature flexibility, -10°C	No crack	
8	Resistance to root penetration		Pass	
9	Mold corrosion resistance	Anti-mold level	0 or 1	
		Retention of elongation, % $\geq$	80	
10	Dimensional stability, % $\leq$		1.0	

**Packing**

Roll size: 1m x 10m or customized  
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.