

## HDPE Reinforced Self-adhesive Bituminous Waterproof Membrane

### Description

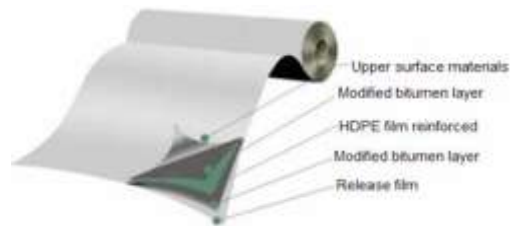
HDPE reinforced self-adhesive bituminous waterproof membrane is a “peel and stick” polymer bituminous membrane, has been formulated by using premium raw materials such as bitumen/SBS/ high tack resins with HDPE film reinforced. The silicon-coated release film as anti-sticking protection layer is easy to remove. The membrane is cold applied and installed without the use of open flames. It has excellent elongation and anti-corrosion abilities.

### Uses

Waterproof and damp proof for non-exposed roofs and underground structure of Industrial and civil building, subway, tunnel, bridge, planting roofs, water conservancy etc., especially for the places where the use of torch/fire must be avoided. The substrates can be metal, wood, aluminum, stone, concretes, cement sheets, structural or plywood, insulation blocks, fiberglass, and plastic products.

### Features

- ◆ Cold applied without the use of open flames
- ◆ High tensile strength and excellent elongation
- ◆ Excellent cold flexibility, good weather fastness
- ◆ Strong adaptability to deformation and cracks
- ◆ Good self sealing and dimensional stability
- ◆ Excellent mechanical and ductile characteristics, and tear resistance
- ◆ Good chemical resistance and anti-sticking film releasing easily



### Specification

Thickness, mm	2.0 3.0
Width, m	1.0, 2.0
Length, m	15, 10
Upper surface materials	Polyethylene film (PE), polyester film (PET), aluminum foil, minerals,
Lower surface materials	Polyethylene (PE) release film with silicon-coated
Reinforcement layer	HDPE film

### Technical Data: Executive Standard GB18967-2009

No	Item		Index	
1	Tensile properties	Tension, N/50mm $\geq$	longitudinal	200
			transverse	
		Elongation at break, % $\geq$	longitudinal	120
			transverse	
2	Thermal resistance, 70°C $\times$ 2h		No dripping, no blister	
3	Low temperature flexibility, -20°C		No crack	
4	Imperviousness, 0.4MPa *30min		Impermeable	
5	Dimensional stability, 70°C, % $\leq$		2.5	
6	Peel strength, N/mm $\geq$	Membrane and membrane	1.0	
		Membrane and aluminum sheet	1.5	
7	Nail shank watertightness		Pass	
8	Persistence adhesivity, min $\geq$		15	
9	Thermal ageing	Tension at longitudinal direction, N/50mm $\geq$	200	
		Low temperature flexibility, -10°C	No crack	

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	Elongation at longitudinal direction break,% ≥	120
10	Re-peeling strength, N/mm ≥	1.5

### Packing

Roll size: 1m or 2m x 10m, 15m  
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 wide, 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. Coverage of primer will depend on the porosity of the substrate.

**Application:** Starting at the lowest point to higher, fix one end of the membrane, remove the isolation film, and install it according to the line. Sheet edges must be overlapped a minimum of 60mm, end laps must be a minimum of 100mm, with upper sheets lapped over lower sheets, use the rubber drag roll to press the membrane well.

**Ending process:** The flat surface, and groove are sealed by sealant. On vertical surfaces, fixed with metal slat and sealed with sealants.

**Inspection:** A thorough inspection is required after application, any bubbles, or breakage, repaired by unwounded 150mm sheet pressed well and sealed by sealant. Apply protection layer according to waterproof layer design after the membrane is installed to ensure the membrane is not left exposed to sunlight or UV radiation.

### 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 places can not be higher than 50° C.

It should be stored by cartons and can not be put in more than five levels. The shelf life is 1 year.

### Safety precautions

Do not work in a rainy or snowy day, or heavy wind (above 5 grade). Unsuitable for construction when ambient temperature below 0°C. If it rains or snows in the construction, protective action to the laid membrane is a must.

During installation, exercise extreme caution when working with open flame; Examine all surfaces to which the flame has been applied for smoldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

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