Polyester Reinforced Self-adhesive Bituminous Waterproof Membrane

Description

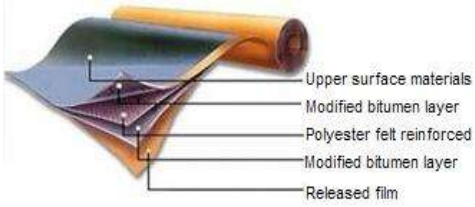
Polyester reinforced self-adhesive bituminous waterproof membrane is a “peel and stick” polymer bituminous membrane, has been formulated by using premium raw materials such as bitumen/SBS/ high tack resins with polyester felt reinforced. The silicon-coated release film as anti-sticking protection layer is easy to remove. The membrane is cold applied and installed without the use of open flames, ideal for the places where traditional torch on or fastened systems can not be used.

Uses

Waterproof and damp proof for roof 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, good elongation
- Excellent cold flexibility, good weather fastness
- Strong adaptability to deformation and cracks
- Good self sealing and dimensional stability
- Good mechanical characteristics
- High puncture and tear resistance
- Good chemical resistance and anti-sticking film releasing easily



Specification

Thickness, mm	2.0	3.0	4.0
Width, m	1.0, 2.0		
Length, m	15	10	10
Upper surface materials	Polyethylene film (PE), polyester film (PET), aluminum foil, minerals		
Upper surface materials	Polyethylene (PE) release film with silicon-coated		
Reinforcement layer	Polyester felt		

Technical Data: Executive Standard GB23441-2009

No	Item			Index	
				I	II
1	Soluble content, g/m^2 ≥		2.0mm	1300	--
			3.0mm	2100	
			4.0mm	2900	
2	Tensile properties	Tension, N/50mm≥	2.0mm	350	--
			3.0mm	450	600
			4.0mm	450	800
		Elongation of maximum tension,% ≥		30	40
3	Thermal resistance, 70°C×2h			No drifting, no flowing, no dripping	
4	Low temperature flexibility, °C			-20	-30
				No crack	
5	Imperviousness, 0.2MPa *120min			Impermeable	
6	Peel strength, N/mm≥	Membrane and membrane		1.0	
		Membrane and aluminum sheet		1.5	

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7	Nail shank watertightness		Pass	
8	Oil permeability, Pieces ≤		2	
9	Persistence adhesivity, min ≥		15	
10	Thermal ageing	Elongation at maximum tension, %	30	40
		Low temperature flexibility, °C	-18	-28
			No crack	
		Peeling strength, Membrane and aluminum sheet, N/mm ≥	1.5	
		Dimensional change, %≤	1.5	1.0
11	Re-peeling strength, N/mm ≥		1.5	

Packing

Roll size: 1m or 2m x 10m, 15m, 20m
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 hall be well prepared, according to regulations.