

Cross Laminated Film (HDPE) Bituminous Waterproof Membrane

Description

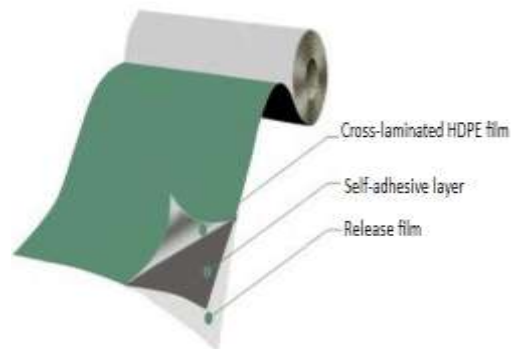
The self-adhesive bituminous waterproofing membrane is modified with SBS and high tack resins, self-protected by a cross-laminated HDPE film. The HDPE film gives the membrane its mechanical and physical characteristics and ensures a uniform elongation in a longitudinal and transversal direction. The film can stretch up to 10% without breaking or cracking. The silicon-coated release film as anti-sticking protection layer is easy to remove. The membrane is cold applied, ideal for the places where traditional torch can not be used.

Features

- ◆ Cold application without the use of open flames
- ◆ High tensile strength and mechanical characteristics, self sealing ability
- ◆ Excellent dimensional stability, uniform elongation in longitudinal / transversal direction
- ◆ Excellent flexibility and adaptability to deformation and cracks
- ◆ Easy use, no toxic, release film removed easily

Uses

For specific damp proofing of vertical walls, foundations, basements, roofs. Underground structure of Industrial and civil building, subway, tunnel, bridge, water conservancy etc. The substrates can be metal, wood, aluminum, stone, concretes, cement sheets, structural or plywood, insulation blocks, fiberglass, and plastic products.



Specification

Upper surface film	Lower surface film	Thickness, mm	Width, m	Length, m
Cross laminated Film (HDPE)	Silicon coated release film PE, PET	1.2, 1.5, 2.0	1.0, 2.0	15, 20

Technical Data: Executive Standard GB23457-2009

No	Item	Index	
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1	Tension, N/50mm ≥	210	220
2	Elongation of maximum tension, % ≥	160	200
3	Thermal resistance, 70°C×2h	No drifting, no flowing, no dripping	
4	Low temperature flexibility, °C	-15	-25
		No crack	
5	Imperviousness, 0.2MPa *120min	Impermeable	
6	Membrane with membrane	1.0	
	Membrane with concrete	2.0	
	Membrane with concrete after immersing in water	1.5	
7	Nail shank watertightness	Pass	
8	Oil permeability, Pieces ≤	2	
9	Persistence adhesivity, min ≥	15	

10	Thermal ageing 70°Cx168h	Retention of tension, % ≥	90	
		Elongation retention, % ≥	80	
		Low temperature flexibility, °C	-13	-23
			No crack	
Peeling strength, Membrane with aluminum sheet, N/mm ≥	1.5			
11	Thermal stability	Appearance	No wrinkle, no flow, no dripping	
		Dimensional change, %≤	2.0	

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 materials 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.