

Water proofing membrane

SELF ADHESIVE MEMBRANE

Description

Quick reaction type strong cross membrane self-adhesive waterproof membrane is a high-performance, cold construction self-adhesive waterproof membrane composed of specially made cross laminated high-density polyethylene (HDPE) strong film and high-quality polymer self-adhesive rubber bitumen through special processes. It has excellent size stability, thermal stability, UV resistance, and bidirectional tear resistance. The strong cross film used in this product is a high-strength HDPE film formed by cross lamination and lamination process. The film made by this process has the same longitudinal and transverse elongation, and the membrane will not deform, which is more beautiful and has more reliable waterproof effect.

Adopting high-quality pressure-sensitive reaction self-adhesive adhesive layer, it can quickly combine with the concrete base, and its excellent self-healing performance and local self-locking performance greatly reduce the probability of leakage. The polymer (chain segment) in the membrane adhesive forms an interpenetrating network structure with the cement hydrate (silicate network), ultimately forming a continuous mechanical bond that is permanently sealed on the cement cementitious material component

Protective Film

This is hot laminated to the bituminous / asphalt compound and gives the membrane its mechanical and physical characteristics, such as heat stability, shape, chemical resistance, etc.

Application

For laps to shed water, frontier membrane should always be applied from the lowest point. The edge and end laps must overlap by a minimum of 60mm. An extra layer of membrane 300mm wide should be applied to internal and external corners. It is recommended that all exposed edges and end laps be sealed with a bead of self-adhesive mastic. For vertical surfaces, the joints should overlap by at least 100mm and be shaped so that they shed water. Waterproof membrane rolls are marked with a 60mm overlapping line. Ensure that the membrane is properly adhered to the surface at perimeters or around penetrations. On completion of the installation of waterproofing membrane, it is recommended that a protection board are used before backfilling to protect the membrane from damage. Under no circumstances should the membrane be left exposed to UV light for long periods.

Packing size

1 Meter x 20 Meter x 1.5 mm

1 Meter x 20 Meter x 1mm



Strong Cross Membrane

The ordinary film is a unidirectional stretching film, and the self-adhesive coil produced using this film will wrinkle when it encounters temperature changes after laying, and excessive deformation can easily cause the coil to be torn.

This strong film is produced from multiple layers of specially formulated films through multiple processes such as crossover and lamination. It overcomes many shortcomings of ordinary films and has characteristics such as high tensile strength, sun resistance, and non-foaming. Its technical indicators can meet the international requirements for Type II waterproof rolls and can be used as a surface material for waterproof rolls

Product Features

- The new pre laid wet bonding technology forms a permanent organic bond between the membrane and the structural concrete, without any potential water leakage, completely improving the reliability of the waterproof layer.
- Excellent impact resistance and puncture resistance, able to withstand construction loads and the impact of steel bars. During pre-laying and anti-bonding construction, no extra protection is required, and concrete pouring can be carried out directly.
- Adopting a special formula, the self-adhesive adhesive layer has strong self-healing ability and unique self-healing ability for minor construction damage.
- Chemical corrosion resistance, with good resistance to alkaline water from concrete. Not affected by microorganisms, resistant to mold and corrosion.
- During wet paving construction, there is a low requirement for the construction surface, and it is not affected by the dampness of the base layer. It has obvious advantages in rainy season construction and rush period engineering.

PERFORMANCE INDICATORS

Complies with the (GB/T35467-2017) standard

Serial No.	Items	Indicators		
		H	E	PV
1	Soluble matter content (g/m ²) ≥			2100
2	pulling(N/50mm) ≥	300	200	500
	Elongation at maximum tension (%) ≥	50	180	30
	Phenomena during stretching	No separation between the adhesive layer and the polymer film or substrate		
3	tearing force /N ≥	20	25	200
4	heat resistance (70°C, 2h)	No flowing, dripping, slipping ≤ 2mm		
5	Low temperature flexibility(-20°C)	No cracks		
6	Impermeability (0.3Mpa,120min)	imperviousness		
7	Peeling strength of coil and coil (overlapping edge)/(N/mm)	No processing ≥	1.0	
		Immersion treatment ≥	0.8	
		heat treatment ≥	0.8	
8	Oil permeability (number of sheets) ≤	2		
9	holding power/min ≥	30		
10	Peeling strength with cement mortar/(N/mm)	No processing ≥	1.5	
		heat treatment ≥	1.0	
11	Peel strength after immersion in cement mortar/(N/mm)	1.5		
12	thermal ageing (70°C, 168h)	Tensile retention rate/% ≥	90	
		Elongation retention rate/% ≥	80	
		Low temperature flexibility (-18°C)	No cracks	
13	Dimensional changes/% ≤	±1.0	±1.5	±1.5
14	thermal stability	No bulging, flowing polymer film, or maximum edge curling of the tire base, not exceeding the edge length/4		