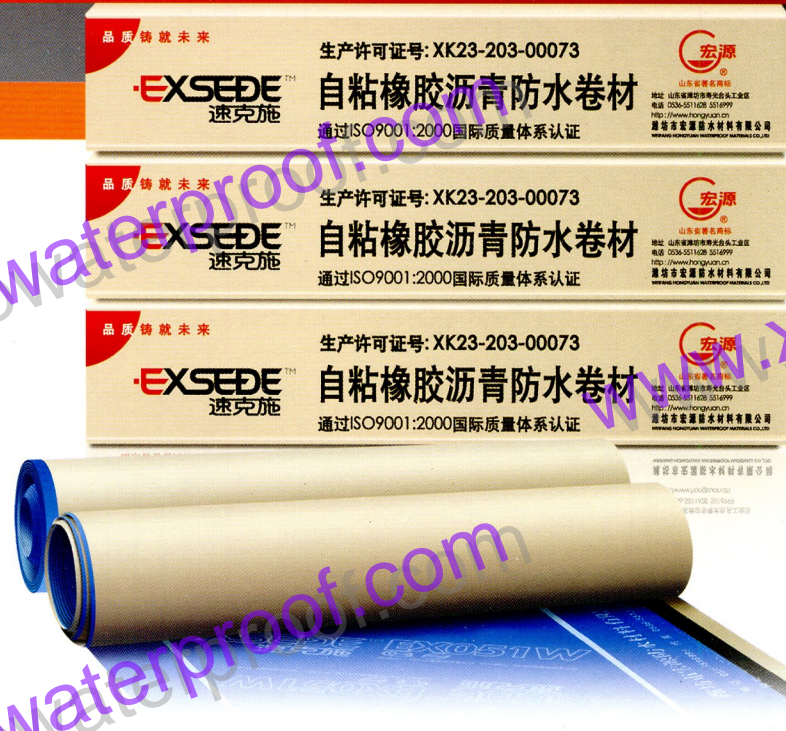


EXSEDE™ 速克施

Self-adhered Bitumen Membrane

Production instruction

EXSEDE™ self-adhered bitumen membrane is made by blending synthesis high polymer modifying asphalt parent metal with asphalt and SBS, TP, immersion medicinal preparation, matches the special waterproof sizing material which makes by the active assistant, the surface layer turns round take the polyethylene membrane (aluminum foil either colored sand) as the superficial material, the bottom surface uses the silicone oil anti-seize to isolate the paper the volume material or both sides for the silicone oil isolates the waterproof volume material which the paper two-sided may cake is a waterproof layer, take the polymer cement mortar as the cementation level, constitutes from sticks the volume material compound waterproofing system. has the facing material from to stick the volume material, its superficial material HDPE, AL may play the auxiliary waterproof role. Two-sided from sticks the volume material is take the waterproof sizing material as the waterproof cementation level, both sides the waterproof volume material which two-sided may cake for the silicone oil isolation paper. Divides according to the carcass of tire has the carcass of tire and does not have the carcass of tire two kinds. When uses the wet shop law polymer cement mortar thickness $\leq 3\text{mm}$, may take the cementation level; When polymer cement mortar thickness $\geq 6\text{mm}$, may take together the rigid waterproof layer to work with EXSEDE™ to form the hard and soft two waterproof layers.



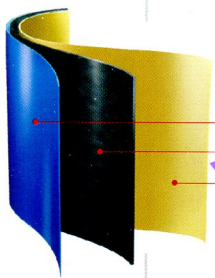
Type & Scope

- Widely used in the industrial and civil building roofing, underground, Pool, tunnel, wooden & metal roofing.
- Specially applied in the chemical factory, garment factory, granary.

Product Specification

Product Name	Self-adhesive polymer modified bitumen membrane			Self-adhesive polymer modified polyester reinforcement bitumen membrane			Double surface self-adhesive polymer modified bitumen membrane		
Thickness	1.2mm	1.5mm	2.0mm	1.5mm	2.0mm	3.0mm	2.0mm	3.0mm	4.0mm
Width	920mm		1000mm	1000mm			1000mm		
Square meter	20m ²	10m ²	5m ²	10m ²	15m ²		15m ²	10m ²	10m ²

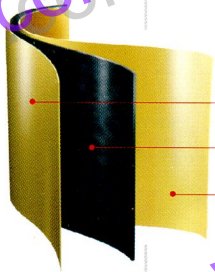
Types and characteristic



HDPE film /Aluminium
Self adhesive layer
Release film

High polymer metal aluminum foil waterproofing volume material

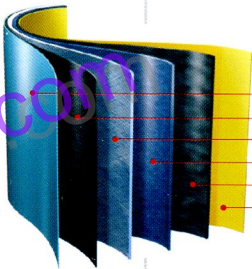
- Extends high, phenomenon which effectively the high elasticity, high tensile strength
- Good anti-aging
- Construction to facilitate to avoid joining which place the volume material existence big stress trend created easy breaking effectively the phenomenon to have and the basic unit cementation high performance
- Avoids fleeing water phenomenon's occurrence to avoid adhesive not water resistant glued joint surface degum, is unable to restore



Release film
Self adhesive layer
(No reinforcement/Polyester reinforcement)
Release film

Two-sided from sticks waterproof volume material to

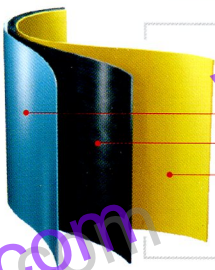
- High elongation, high elasticity, high tensile strength is big.
- Bears the aging
- Cold construction, the construction is convenient.
- High extension, superior cutting contingency nature, joining strict reliable.
- Good outstanding closeness and the self-recovery.
- Remarkable bonding properties, and can be at for a long time sticks the ball condition, guarantees the waterproof layer the integrity.



HDPE film /Sand/Aluminium
SBS modified Bitumen layer
Polyester/Glassfibre
SBS modified Bitumen layer
Self adhesive layer
Release film

Self-adhesive SBS modified bitumen membrane

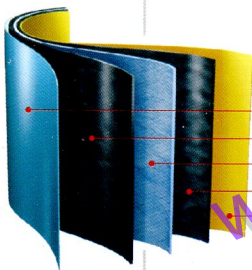
- Presses the sensitive caking construction simple effect lasting stable, may appear externally use for a long time.
- Convenient cold work, the security is high, does not have the pollution, the service is convenient.



HDPE composite aluminium foil
Self adhesive layer
Release film

HDPE composite metal aluminum foil compound aluminum membrane

- Reflection sunlight, anti-ultraviolet ray
- Long service life



Release film
Self adhesive layer
High polymer
Self adhesive layer
Release film

High polymer two-sided from sticks volume material from to stick the volume material

- Tensile strength to be low, but can provide the back lining effect, enables the system to have extends, the high elasticity, the tensile strength to be big high, the adaptation basic unit distortion bears gets older
- The cold work, the non-resolver volatility, construction more convenient the superior cutting contingency nature, reduces the volume material local stress orientation, enhances joining reliable to have the superior closeness and the self-recovery.
- Prevents to flee effectively water phenomenon the remarkable bonding properties, and can be at for a long time sticks the ball condition, guarantees the waterproof layer the integrity and the water resistance.

EXSEDE™ 速克施

Self-adhered Bitumen Membrane

Technical data

HONGYUAN company provides EXSEDE™ self-adhesive bitumen membrane refers to the domestic and foreign similar products strictly the standard. The scientific formula, the modernized production equipment, the consummation production management system has created the rock-solid great source quality.

Self-adhered rubber bitumen membrane EX051W

[Confirming to GB18242-2008]

Item		Surface		
		PE	AL	N
Water impermeability	Pressure, MPa \geq	0.2	0.2	0.1
	Retention time, min \geq		120, water impermeable	30, water impermeable
Heat resistance $^{\circ}$ C		*	80 No slippage, flowing, dropping.	*
Tensile force N/50mm \geq		130	100	*
Elongation at break, % \geq		450	200	450
Softness		-20 $^{\circ}$ C, Φ 20mm, 3s, 180 $^{\circ}$ C. No crack.		
Shear performance N/mm	Between membrane \geq	2.0 or fracture on the external agglutination section		fracture on the external agglutination section
	Between membrane and aluminum plate \geq			fracture on the external agglutination section
Peel strength, N/mm \geq		1.5 or fracture on the external agglutination section		fracture on the external agglutination section
Puncture resistance		water impermeable		

Self-adhered polymer modified bitumen membrane EX061Y

[Confirming to JC898-2002]

No.	Item	I						II		
		1.5	2	3	2	3				
1	Thickness	800	1300	2100	1300	2100				
2	Water impermeability	Pressure, MPa \geq	0.2						0.3	
		Retention time, min \geq							30	
3	Heat resistance $^{\circ}$ C	PE S	70, no slippage, flowing, dropping.							
		AL	80, no slippage, flowing, dropping.							
4	Tensile force N/50mm \geq	200	350			450				
5	Elongation percentage at maximum tensile force, % \geq	30								
6	Softness at low temperature, $^{\circ}$ C	-20						-30		
7	Shear performance, N/mm	Between membrane \geq	2.0 or fracture on the external agglutination section		4.0 or fracture on the external agglutination section					
Between membrane and aluminum plate \geq										
8	Peel strength, N/mm \geq	1.5 or fracture on the external agglutination section								
9	Puncture resistance	Water impermeable								
10	Tearing strength, N \geq	125	200			250				

Double surface self-adhesive polymer modified bitumen membrane

[Confirming to Q/WHY001-2007]

No.	Reinforcement Type	PY			G				
		I	II	C	I	II	C		
1	Soluble substance content, g/m 2 \geq	2mm	1300						
		3mm	2100						
		4mm	2900						
2	Water impermeability	Pressure, MPa \geq	0.3			0.2			0.3
		Retention time, min \geq	30, water impermeable						
3	Heat resistance $^{\circ}$ C	70	80	70	70	80	70		
4	Tensile force N/50mm \geq	Longitudinal	350	450	350	350	400	350	
		Transverse				250	300	250	
5	Softness at low temperature, $^{\circ}$ C	-20	-30	-5	-20	-30	-5		
6	Shear performance, N/mm	Between membrane \geq	4.0 or fracture on the external agglutination section						
Between membrane and aluminum plate \geq									
7	Puncture resistance	1.5 or fracture on the external agglutination section							
8	Tearing strength, N \geq	200			93				

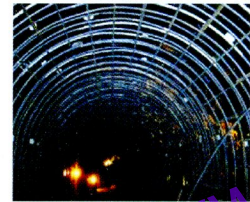
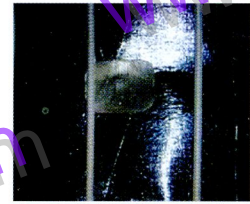


System advantages

The HONGYUAN people created "the pre-pave type" construction method for self adhesive waterproof membrane according to the massive construction experience and consulted the experience and lessons of advanced countries. The method improved greatly the reliability of waterproofing effect of self adhesive waterproof membranes. The effect is especially good in the tunnel, the subway and underground projects.

Cementation mechanism

The self adhesive membrane apply "the pre-pave type" construction method, which lay the membrane on the underlayment, protection wall, underground seriate wall. Because the product formula includes the special active material which can cross linking with the flowing hitch the tooth to gather mutually and forms the formidable cementation strength, thus realizes full stickup of the waterproof volume material and the building structure. So it can improve the reliability of the membrane and the waterproof effect in maximum limit.



Construction craft

- Concrete layer processing: The concrete layer should be smooth, no male-female face, no dust, no oil, the crack should be repaired with polymer cement mortar.
- Spread the finishing agent on the concrete layer: After opening the finishing agent vessel, should stir fully evenly, use the brush to brush the finishing agent on the edges and corners of concrete layer evenly. After it get dry, should keep the surface clean and lay the membranes in time.
- Detail node processing: should deal with the gap, hole and pipe according to the requirements of <Roofing Engineering technology Standard> (GB50345-2004)
- The horizontal laying: firstly draw a beeline on the concrete layer, then lay the membranes from low to high. Uncover the release paper while lay the membranes follow the beeline. The overlap width of the membranes should be $\geq 50\text{mm}$ (full adhibiting), $\geq 60\text{mm}$ (no adhibiting, dot adhibiting/strip adhibiting). Should use the rubber drag roll to press the membrane well after laying the membranes.
- The perpendicular laying: should lay the membranes from low to high, uncover the release paper while lay the membranes. The overlap width of the membranes should be $\geq 50\text{mm}$ (full adhibiting), $\geq 60\text{mm}$ (no adhibiting, dot adhibiting, strip adhibiting). Should use the rubber drag roll to press the membrane well after laying the membranes.
- End processing: Should seal the end of membranes with sealant, then fix it with metal slat, and seal the metal slat and the nails with sealant.
- Construction inspection: inspect all the membranes for tearing, breakage, air bubble, if find any disfigurement, should cut the membrane and repair the disfigurement.
- Waterproof protection: Should according to "Roofing Engineering technology Standard" the stipulation makes the protector.

Remarks Wet laying method:

concrete layer processing → brush the polymer cement mortar → uncover the release paper → lay the membranes → exhaust and stick the membranes