

## Self-adhesive Waterproofing Membrane Aluminum



### Product overview

It's reactive Self-adhesive Bituminous Waterproofing Membrane, it contains special active agents and anti-aging agent, and could be constructed on moisture substrate, it could have reaction with grout, and could be fully sticky with substrate to successfully avoid channeling water problem. The construction method needs no fire and have excellent performance.

### Feature:

1. Low requirements for the substrate, could construct on moisture, no need primer or pre-treatment, could save project time
2. Could be fully sticky with substrate, and will not separate under long-term immersion environment, could effectively avoid channeling water problem
3. No need fire, safe application, easy to use
4. Seldom be affected by rainy weather, could save project time.
5. Could effectively avoid overlap risk

### Scope of application

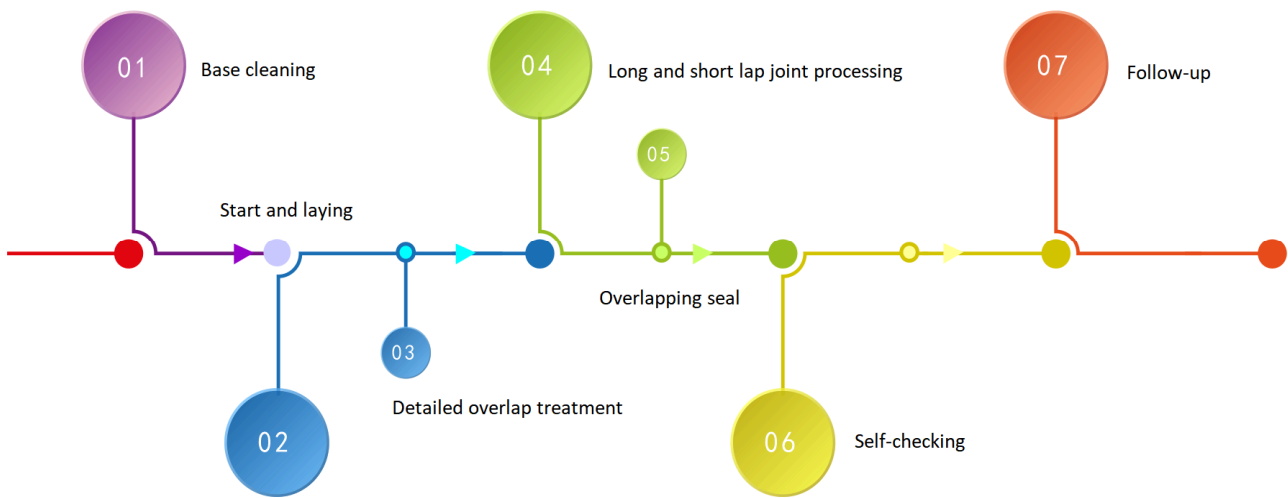
It's used for waterproofing of exposed roofs, steel structure projects, it's especially suitable for waterproofing projects where open flames are prohibited.

### Construction Guide:

1. Clean the substrate, no floating sand, and other unsuitable things
2. Make the substrate a little wet, but no clear water

- 3.Prepare the cement grout, cement:water=1-2:1, add 0.5% bonding powder.
- 4.Apply the grout on the substrate, around 0.5mm thickness
- 5.Spread the membrane on the grout, and make the membrane smooth, and must exclude the air between grout and membrane
- 6.Wait until the grout become paste and not flowing(about 10mins), then remove the overlap PE film, let membranes bond to each other, be cautious not to pollute the overlap parts.

### Construction Diagram



### Construction Steps



## Application on Steel Roof



### Specification

Products are divided into polymer membrane-based waterproofing membranes and polyester-based waterproofing membranes (PY category) based on reinforcing materials. Polymer membrane-based waterproofing membranes are divided into high-strength category (H category) and high-elongation category (E category)

Products are single-sided bonding (S)

Category H and Category E are 1.5mm, 2.0mm;PY type is 3.0mm,4.0mm

\*Aluminum film can be changed into aluminum foil

Type	Length	Width	Thickness	Area
P	20m	1m	1.2mm	20M <sup>2</sup>
			1.5mm	
	15m	1m	2.0mm	15M <sup>2</sup>
PY	10m	1m	3.0mm	10M <sup>2</sup>
			4.0mm	

### Transportation and Storage

Products of different types and specifications should be stacked separately and should not be mixed. Avoid exposure to the sun and rain, pay attention to ventilation and keep away from fire sources. The storage temperature should not be higher than 45°C . When the coils are stored flat, the stacking height should not exceed 5 layers. When stored vertically, they should be stacked in a single layer. Prevent tilting or side pressure during transportation, and cover with tarpaulin if necessary. Under normal transportation and storage conditions, the storage period is at least 1 year from the date of production.

### Technical index: GB/ T 35467-2017 self-adhesive waterproofing membrane

Item		Parameters					
		Polymer membrane		Polyester membrane			
		Type I	Type II	Type I	Type II		
Soluble content/ (g/m <sup>2</sup> ) ≥		3.0mm		---		2100	
Tensile property	Pull strength/ (N/50mm) ≥	250	300	500	700		
	Tensile elongation at maximum pull strength/% ≥	30	150	30	40		
Tear strength/N ≥		15	30	200	350		
Heat resistance		70°C, 2h				No displacement, flow, dripping	
Low temperature flexibility/°C		-16	-27	-18	-27		
Watertightness		0.3MPa, 120min, watertight				No crack	
Peel strength between membranes/ (N/50mm) ≥	No treatment	1.0					
	Thermal aging	1.0					
Holding power/min ≥		30					
Peel strength between membrane and cement mortar/ N/50mm	No treatment	2.0					

	Thermal aging	1.5			
Peel strength between membrane and cement mortar after being immersed in water/ (N/mm) ≥		1.0			
Thermal aging (80°C,168h)	Retention rate of tensile strength/%	92			
	Retention elongation/% ≥	85			
	Low temperature flexibility	-18	-28	-18	-30
		No crack			
Thermal stability	Appearance	No wrinkle、sliding、flowing			
	Dimensional change/%	2.5			

