

Polymer Modified Bituminous Waterproofing Coating Liquid Waterproofing Membrane

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Product Overview



This product is a water-based, environmentally friendly waterproof coating produced through a scientific formula using petroleum bitumen as the base material, high-quality rubber as the modifier, natural nano-materials as fillers, and supplemented with polymers. It is non-toxic, odorless, and non-polluting. It can be cold-applied on damp substrates. The rubber polymer forms a network distribution within the coating system. After drying, the film offers excellent acid, alkali, and weather resistance. It forms a seamless, integral waterproofing layer on the substrate – simple and fast to apply

Product Features

- Under the action of temperature and mechanical forces, the polymer allows bitumen to enter its three-dimensional network structure, forming an organic polymer elastomer. This greatly improves bitumen performance and gives the product rubber- like characteristics.
- Easy application, wide range of uses – significant advantages for complex details.
- Easy repair – only the damaged area needs local repair, still achieving original waterproofing performance.
- After curing, forms a seamless, complete elastic waterproofing layer – improves the waterproof and anti-seepage performance of buildings, something roll membranes cannot achieve.

Performance

Complies with standard JC/T408-2005.

Parameter		L	H
Solid content , %		45	
Heat resistance /℃		80 ± 2	110 ± 2
		No flow, slip, or drip	
Water impermeability		0.10 MPa , 30 min no leakage	
Bond strength /MPa ≥		0.30	
Low temperatur e	Standard conditions	-15	0

flexibility α / ℃	Alkali treatment	-10	5
	Heat treatment		
	UV treatment		
Elongation at break / % ≥	Standard conditions	600	
	Alkali treatment		
	Heat treatment		
	UV treatment	No sagging, sliding, or dripping at 60°C	No sagging, sliding, or dripping at 70°C
A Lower temperature flexibility values can be agreed upon between supplier and purchaser			

Precautions

During application, fire prevention and ventilation measures must be taken. Firefighting equipment shall be provided. Applicators shall wear appropriate protective gear such as gloves and masks to prevent chemical poisoning. Protect the finished coating.
During subsequent construction steps, care must be taken not to damage the waterproof film layer, so as not to affect waterproofing performance.

Application Method

Waterproof Coating Application

Primer coat: Apply the coating material evenly on the substrate surface. Do not allow build-up or bare spots. The application rate shall be approximately 0.2–0.3 kg/m² . After the primer coat has cured for at least 5 hours, proceed to the next step.

Waterproof coating application: Apply the coating material in multiple thin layers to ensure uniform thickness and reduce bubbles. The application rate per coat shall be approximately 0.4–0.5 kg/m², with a thickness of about 0.4–0.5 mm.After the first coat, allow it to cure for at least 5 hours until it is no longer tacky to the touch.

Then apply the second coat in a perpendicular direction. At internal corners where the floor meets the wall, it is recommended to lay a non-woven fiber fabric reinforcement.

Areas such as pipe bases, equipment foundations, floor drains, and both internal and external corners on the floor shall receive additional coats. The wall area within 30 cm above the floor shall also be coated.

Apply 3 to 4 coats in these areas. For flat substrates, 2 to 3 coats are generally sufficient. According to national standards, a qualified waterproof coating film thickness shall not be less than 2 mm