

PRODUCT DATA SHEET

Polymer Modified Bitumen Waterproof Coating

INTRODUCTION

Polymer Modified Bitumen Waterproof Coating is a highly elastic waterproof coating made from emulsified asphalt as the base material, modified and toughened with aqueous high-molecular polymer, and enhanced with mineral materials. It is produced through a scientific formula. The coating is highly elastic, adhesive, and UV-resistant. It is simpler and more convenient than traditional torch on membrane, it's also called liquid waterproofing membrane. Additionally, it is not restricted by the complex shapes of the base layer and can form a continuous, seamless, high-elastic waterproof membrane.

APPLICATION

1. Building Surfaces: Roofs and terraces, Interior and exterior walls, Balconies.
2. Indoor Spaces: Bathrooms, Warehouses, Kitchens.
3. Special Structures: Basements, Pools, Water tanks.
4. Infrastructure: Tunnels, Bridges, Reservoirs.
5. This product is highly suitable for application on top of asphalt membranes.

Note:

1. This product can be exposed to the sunshine and is UV resistant.
2. This product can be used in areas with heavy water accumulation. It can be submerged in water for 20 days without peeling or falling off, but it cannot be submerged in water for a year.
3. When used in swimming pools or water tanks, a layer of concrete topping or tile topping is required.
4. This product can adhere to surfaces such as concrete, metal, tiles, glass, wood, and other coatings.
5. Application methods: Applying with a sprayer, roller, brush, or scraper.
6. This product can also be diluted with water for use.
7. This product can be used with fiber mesh.

ADVANTAGES

- **Strong adhesion:** It bonds firmly to concrete surfaces, forming an elastic and weather-resistant waterproof membrane.

- **High elasticity and weather resistance:** It has excellent weather resistance, with higher strength and better durability than most general waterproof coatings.
- **Wide temperature adaptability:** Effective in both low and high temperatures, with stable performance.
- **UV-resistant:** It can withstand prolonged exposure to sunlight without cracking.
- **Wide applicability:** Suitable for both wet and dry surfaces, with strong bonding strength.
- **Convenient to use:** Simply open the lid and stir before use.

PACKAGING & COVERAGE

Specification:	18kg/pail or 50kg/pail
Appearance:	Single component, brown viscous emulsion. Once it dries, it will turn pure black.
Coverage:	It is recommended to apply two coats, with each pail covering 13~15m ² .
Warranty period:	Normal Quality: 6~8 years. Excellent Quality: more than 10 years.
Shelf Life:	1 Year

CONSTRUCTION STEPS

1. Surface Preparation

The substrate must be solid, level, free of dust, oil, and dry before application.

Clean and sweep the surface thoroughly before starting. Fill cracks and grooves around pipe roots with a non-shrink grout until smooth.

2. Detailing Waterproof Treatment

Prior to applying the primary waterproofing layer, apply 2~3 coats of this product to corners, pipe penetrations, and drain areas to create an additional waterproofing barrier, with a film thickness of no less than 0.8mm.

3. Coating Application

Apply the waterproof coating evenly onto the substrate using a roller or brush. A minimum of two coats is recommended, achieving a total dry film thickness of at least 0.8mm. Ensure the second coat is applied perpendicular to the first. Allow a 3-5 hour interval between coats, and proceed only when the previous coat

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is tack-free. For enhanced strength, the coating can be reinforced with fiber mesh.

This product is also suitable for spray application and can be diluted with water.

4.Vertical Surface Treatment

If plastering is required on wall panels, sprinkle a small amount of clean stone chips or fine sand onto the final uncured coating layer to enhance adhesion with the cement mortar.

5.Protective Layer Application (Optional)

This product can be used outdoors, such as on roofs, walls, etc. It can be directly exposed to sunlight and even withstand small areas of standing water, so no protective covering is required. However, if the product is used in swimming pools, bathrooms, floors, etc., a protective layer such as mortar, tiles, etc., must be applied over the waterproof coating after it has dried.

Note:

1.Do not apply during rainy conditions. The product must not come into contact with water before it is completely dry, and rain should be avoided within 24 hours after application.

2.Application can proceed even when the substrate is slightly damp, as this is a water-based waterproofing product. However, no standing water should be present

on the surface.

3.It is recommended to apply the product at temperatures between 5°C and 35°C. Within this temperature range, the material can form a proper film, ensuring optimal adhesion, flexibility, and waterproofing performance.

HANDLING & HEALTH

1.Please wear rubber or plastic gloves to avoid contact with skin.

2.Product is for professional use only.

3.If the product comes into contact with skin during application, it can be removed by rinsing the affected area with clean water.

STORAGE & SAFETY

1.This product is eco-friendly and non flammable.

2.This product must be stored dry, protected from sun and rain.

3.This product should not be stored at temperatures below 5°C. As a water-based waterproof coating, it may freeze at low temperatures, which can compromise product quality.

TECHNICAL DATA

No.	Test Item	Standard Requirements	Test Results	Individual Results
1	Solid Content, %	≥ 45	51	Pass
2	Heat Resistance	(110±2)°C: No flow, sliding, or dripping	No flow, sliding, or dripping at 110°C	Pass
3	Elongation at Break, %	≥ 600	1071	Pass
4	Low-Temperature (Standard Conditions) Flexibility	No cracks at -35°C	No cracks at -35°C	Pass
5	Water Resistance	0.10 MPa, 30 minutes no water leakage	0.10 MPa, 30 minutes: No water leakage	Pass
6	Surface Dry Time, h	≤ 8	8	Pass
7	Drying Time, h	≤ 24	23	Pass
8	Bonding Strength, MPa	≥ 0.30	0.35	Pass

LEGAL NOTICE

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