

PRODUCT DATA SHEET

Water-Based Polyurethane Waterproof Coating

INTRODUCTION

Water-Based Polyurethane Waterproof Coating is an eco-friendly, high-molecular elastic waterproof material, which is non-toxic and odorless. It offers excellent adhesion and breathability. It has strong adhesion to mortar, cement substrates, stone, and metal products, with stable chemical properties. It can withstand long-term sunlight exposure, providing UV protection, and features high strength, large elongation, and good elasticity.

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.

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

- **UV resistance:** It can withstand long-term exposure to sunlight, making it suitable for use in any outdoor environment.
- **Weather resistance:** Resistant to oxidation, and moisture erosion, maintaining waterproofing effectiveness over the long term.

- **High elasticity:** The coating film has a certain degree of elasticity, adapting to minor substrate deformations and resisting cracking.
- **Excellent waterproof ability:** Effectively prevents water penetration, providing reliable waterproofing.
- **Customizable colors:** This product supports customization of any color, such as blue, gray, red, etc.

PACKAGING & COVERAGE

Specification:	18kg/pail or 50kg/pail
Appearance:	Single component, viscous emulsion, color can be customized.
Coverage:	It is recommended to apply two coats, with each pail covering 13~15m ² .
Warranty period:	More than 10 years.
Shelf Life:	1 Year

CONSTRUCTION STEP

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 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.

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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	Appearance	The product is a uniform, viscous substance without gelation or clumping.	Meets requirements	Pass
2	Tensile Strength, MPa	≥6.00	6.74	Pass
3	Elongation at Break, %	≥300	352	Pass
4	Low-Temperature Flexibility	-35°C, no cracks	-35°C, no cracks	Pass
5	Water Resistance	0.3 MPa, 120 minutes, Impermeable	0.3 MPa, 120 minutes, Impermeable	Pass
6	Bonding Strength, MPa	≥1.0	1.2	Pass
7	Water Absorption Rate, %	≤5.0	4.3	Pass

LEGAL NOTICE

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