

PRODUCT DATA SHEET

JS Polymer Cementitious Waterproof Coating

INTRODUCTION

JS Polymer Cementitious Waterproof Coating is a two-component polymer waterproof coating. The liquid component consists of polyacrylate emulsion and other copolymer emulsions, while the powder component is composed of cement powder, quartz sand, and other inorganic powders. This coating has high waterproofing, durability, and impermeability. It adheres strongly to cement.

The ratio of liquid to powder is 1:2. The color can be customized. This product can be applied by brush or spray. This product cannot be exposed and requires a layer of concrete top to be applied over it.

APPLICATION

1. Building Surfaces: Roofs, walls.
2. Indoor Spaces: Bathrooms, Warehouses, Kitchens.
3. Special Structures: Basements, Pools.
4. Infrastructure: Tunnels, Bridges, Reservoirs.

Note:

1. This product cannot be exposed to the sunshine. It requires a layer of concrete topping or tile topping in any case.
2. Application methods: Applying with a sprayer, roller, brush, or scraper.
3. This product can be used with fiber mesh.

ADVANTAGES

- **Strong Adhesion:** The bonding strength with cement-based surfaces can reach over 0.8 MPa, ensuring the stability and reliability of the waterproof layer.
- **Eco-friendly and Safe:** Recognized as a green and environmentally friendly material, with stable performance, aging resistance, and non-toxic, harmless properties.
- **Efficient Film Formation:** Excellent film-forming effect with fast curing speed, quickly forming a superior waterproof layer.
- **Convenient Construction:** Easy to apply, can be directly applied on damp surfaces, and is not prone to bubble

formation.

- **Cost-Effective:** Simple construction process with low costs, and treated surfaces can accommodate additional coatings.

PACKAGING & COVERAGE

Specification:	18kg/pail or 50kg/pail
Appearance:	Two components, white liquid and gray powder, color can be customized.
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

Clean and level the surface, ensuring it is free of cracks and loose materials. Create rounded corners at all internal and external angles, and smooth out sharp edges.

2. Waterproof Coating Mixing

Mix the liquid and powder components in a 1:2 ratio (the ratio in the product bucket is already 1:2, so you can mix directly). Use a mixer to stir for about 5 minutes until there are no lumps, ensuring the mixture is uniform. If water is needed, first add it to the liquid component, then slowly add the powder while stirring.

3. Treatment of Junctions

Moisten the base surface with water. For corners, wall penetrations, floor drains, construction joints, etc., apply Type II polymer cement-based waterproof coating with fiberglass mesh for reinforcement, with a thickness of about 1.0mm.

4. Coating Application

Moisten the surface with water before applying the waterproof coating. Apply the coating evenly, avoiding local accumulation. Apply multiple coats to ensure there are no air bubbles between the coating and the substrate,

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ensuring a solid bond. Generally, at least two coats are needed.

If using waterproofing fabric, ensure the primer and top coat are applied continuously. The non-woven fabric should be laid flat and firmly pressed with a brush to avoid air pockets. After brushing, apply additional coats along the edges of the coating to seal them, and allow the waterproof layer to fully dry.

5. Protective Layer Application

After the waterproof layer has dried, it is recommended to apply a protective layer of cement topping with a thickness of 1.5~2.0 cm.

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	Setting Time	Initial Setting	≥ 45 min	9.5h
		Final Setting	≤ 24	11h 45min
2	Permeability Pressure	7d	≥ 1.0 MPa	1.0 MPa
		28d	≥ 1.5 MPa	1.5 MPa
3	Permeability Strength 28 d	≥ 24 MPa	29.3 MPa	Pass
4	Flexural Strength 28 d	≥ 8.0 MPa	9.4 MPa	Pass
5	Compressive Flexural Ratio	≤ 3.0	2.2	Pass
6	Adhesion Strength	7 d	≥ 1.0 MPa	1.2 MPa
		28 d	≥ 1.2 MPa	1.5 MPa
7	Alkali Resistance Saturated Ca(OH) ₂ solution, 168h	No cracking or peeling	No cracking or peeling	Pass
	Heat Resistance (100°C water, 5h)	No cracking or peeling	No cracking or peeling	Pass
	Freeze Resistance - Freeze-thaw Cycle (-15°C ~ +20°C), 25 cycles	No cracking or peeling	No cracking or peeling	Pass
8	Shrinkage Rate (28d)	≤ 0.15%	0.09%	Pass

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