

MOTENPROOF PU-M WATER-BASED POLYURETHANE WATERPROOF COATING

Product Description

Motenproof PU-M is one component formulated with polyurethane and high-quality polymer emulsion as the base material, combined with functional pigments, fillers and additives with improved water ponding resistance, excellent UV resistance, good crack bridging capacity and great esthetics. For manual / spray application, Motenproof PU-M can be applied as coating or a reinforced liquid applied membrane.

Where To Use

- Suitable for waterproofing solution of concrete roofs, metal roofs, rooftop decks, and other exposed surfaces.
- Suitable for waterproofing solution of directly exposed concrete exterior walls.
- For reflective coating to enhance energy efficiency by reducing cooling costs.

Product Features

- Highly elastic and crack-bridging.
- High bond strength, moisture resistance, weather resistance, aging resistance, and long-lasting waterproof performance.
- Reflective and heat-insulation, effectively extending the service life of waterproof materials and reducing the surface temperature of substrates.
- Water-based and eco-friendly, one component, ready to use, saving time and labor costs.

Packaging

20kg/pail

Application Procedures

Surface Preparation:

- The substrate should be flat, sound, clean, and free from voids, dust, oil stains, dirt, and other loose materials. Concrete substrates with visible pores, cracks, voids, etc., should be repaired and leveled with cement mortar or leak-proofing material.
- Form fillets for external and internal corners, pipe openings, and other parts using cement mortar or leak-proofing material.
- Keep the substrate dry, with a moisture content <9%;

Application:

- Details reinforcement: vulnerable areas such as external and internal corners, pipe openings, floor drain openings, and joints prone to leakage should be reinforced with waterproof coatings and mesh fabric.
- Large-area application: Use a brush or roller to evenly apply the waterproof coating to the substrate. Brush the vertical surfaces first, then the horizontal surfaces. Generally, two to three coats are needed, with the interval between each coat determined by the previous coat's dryness until it is tack-free. Each coat should be brushed perpendicular to the direction of the previous coat, with uniform thickness and no missed spots or deposit.

Ponding test:

- After curing for 3 to 5 days and when the waterproof layer is completely dry, ponding test can be conducted. The duration of the pond test should not be less than 24 hours, and no leakage is deemed qualified.

Technical Information

Chemical Base	Polyurethane modified acrylic dispersion.	
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed packaging	
Colour	Grey and White	
Solid Content	≥ 60%	
Tensile Strength	≥ 1.0 Mpa	Q/SDKS 133-2024 DB11
Elongation at Break	≥ 80 %	Q/SDKS 133-2024 DB11
Adhesion Strength	≥ 0.5Mpa	Q/SDKS 133-2024 DB11
Crack Bridging	No Crack	
Water Penetration	No Penetration	
Tack Free Time	≤ 2h	
Application Temperature	5°C~35°C	

Recommand Usage

1.3-1.5kg/m² for 1mm thick film (Note: The data belongs to the calculation of standard experimental environment and is for reference only. The actual amount should be calculated according to the site base surface.)

Precautions

- The construction temperature should be between 5°C and 35°C, with adequate ventilation in the construction environment, and avoid construction in environments with relative humidity exceeding 85%;
- During construction, pay attention to the waterproof layer. The pond test can only be conducted after complete drying. Stepping on or damaging the coating during this period is prohibited.
- This product is strictly prohibited from being diluted with additional water or diluents, as it will affect the film performance.
- Apply multiple coats evenly to prevent cracking.

Storage And Transportation

- Products of different categories should be separated from each other during storage and transportation.
- The storage temperature should be maintained between 5°C and 35°C. Do not approach the fire, avoid exposure to direct sunlight and rain, prevent collision. Adequate ventilation should be ensured during storage.

Safety Guidelines

This product is water-based. Wear gloves and other protective measures during application. If on hands or clothes, rinse immediately with clean water.

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