



Anhui Surmount New Materials Co., Ltd.

SMT-M106 One-Component Outdoor MS Waterproof Coating

Product Introduction

SMT-M106 One-Component Outdoor MS Waterproof Coating is a planar-type, one-component, moisture-curing, high-polymer exposed waterproofing material suitable for building substrate surfaces. After curing, it forms a high-strength, hydrophobic, weather-resistant, high and low-temperature resistant elastic waterproof layer. This material features solvent-free, low volatility, low odor, and environmental friendliness.

Performance Characteristics

- Solvent-Free: Free from harmful substances such as formaldehyde, toluene, and isocyanates.
- Easy Operation: One-component coating, no mixing required, convenient application.
- Excellent Low-Temperature Resistance: After curing, it maintains good flexibility at -40°C without cracking.
- Strong Adhesion: Excellent adhesion to concrete, stone, metal, glass, ceramic, wood, etc.
- Good Weather Resistance: Suitable for exposed applications, excellent UV resistance, can be exposed to outdoor environments for extended periods.
- Water Resistance: Does not detach after prolonged water immersion.
- Planar Type: Suitable for flat surfaces, good leveling properties.

Scope of Application

- Suitable for waterproofing and leak repair on water-exposed surfaces of buildings such as roofs, color steel tiles, and exterior walls.
- Also suitable for waterproofing and moisture-proofing in bathrooms, kitchens, balconies, pools, etc.

Usage Limitations

- Not recommended for use in airtight spaces, as the coating requires moisture from the air to cure.
- Do not apply when the material surface temperature is below 5°C or above 40°C.
- Do not use on frosty surfaces or surfaces with standing water.
- When bonding to cement or concrete substrates, the substrate must be fully cured and dried for at least 7 days before application; otherwise, adhesion performance may be affected.
- Do not use on materials that may exude oils, plasticizers, or solvents, such as surfaces of oil-impregnated wood.



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Physical Properties (23°C, 55% RH)

Item	Result
Appearance	Uniform semi-fluid paste
Density, g/cm ³	1.36
Viscosity, mPa·s	15000
Tack-Free Time, min	50
Low Temperature Flexibility (-10°C)	No Cracks
Water Impermeability (0.3MPa, 120min)	Watertight
Tensile Strength, MPa	2.0
Elongation at Break, %	100
Coating Rate, kg/m ²	1.3-1.5

Application Instructions

1. Application Method:

- Clean the substrate surface, ensuring it is firm, free from loose particles, dust, sand, oil, and other foreign matter. Fully wet the substrate before application, with no standing water.
- Apply the first coat using rolling, brushing, or troweling methods.
- Before the coating dries, lay polyester fabric. Use a scraper or roller to remove air bubbles, ensuring the fabric fully adheres to the coating. Overlap the fabric by at least 10 cm between sheets. For details such as corners, inside and outside corners, pipe roots, etc., cut the fabric according to the shape to create a reinforcement layer, avoiding hollow areas.
- Apply the second coat over the entire fabric surface, perpendicular to the direction of the first coat. The total recommended thickness is 1.2-1.5 mm.

2. Precautions

- Use the product within its shelf life. Do not use expired product.
- Strictly follow the procedures established during adhesion testing.
- The product releases trace chemicals during curing. Ensure adequate ventilation in the workspace. It is non-toxic after curing.
- Avoid direct contact with skin and eyes. Do not ingest.
- Keep out of reach of children.
- Ambient temperature and humidity affect the curing speed of the coating. Monitor environmental changes before application and adjust or control accordingly.

Storage and Transport



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This product is classified as non-hazardous for transport. Store in a cool, dry place below 27°C. The shelf life is 12 months. Use as soon as possible after receipt.

Packaging

Standard Colors: Gray, black, and various other colors are customizable. This product is available in 18kg pails or according to actual customer requirements.

SMT-B100 Waterborne Polyurethane Waterproof Coating

Product Introduction

SMT-B100 Waterborne Polyurethane Waterproof Coating is an environmentally friendly, one-component waterborne waterproof coating prepared with polyacrylate emulsion as the base material and various additives, using water as the dispersion medium. It features good film elongation properties, storage stability, film mechanical properties, water resistance, solvent resistance, aging resistance, and excellent low-temperature performance. It is a waterproof coating suitable for various types of projects in the current market. This coating is free from solvent pollution; it forms a film and cures through polymer coalescence after water evaporation, and is easy to use.

Performance Characteristics

- High elongation, good tensile strength, resistant to high and low temperatures, aging, and corrosion;
- Solvent-free, environmentally friendly and non-polluting;
- High solid content up to 70%, high film formation rate, material-saving;
- Customizable colors, good waterproofing and decorative effect;
- Good water resistance, no debonding after prolonged water immersion.

Scope of Application

- Flat and sloped roofs of industrial and civil buildings, various irregular roofs, especially roofs requiring decorative finishes and sports fields;
- Anti-seepage and sealing for subways, tunnels, passages, pools, expansion joints, construction joints, deformation joints, gutters, and various hydraulic engineering projects;
- Can be used for repairing building cracks and sealing expansion joints;
- Can be used for anti-corrosion flooring, anti-corrosion pools, external anti-corrosion of pipelines, insulation, and thermal insulation.



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Usage Limitations

- Do not apply in environments with high humidity >80% RH, as the coating requires water evaporation to cure;
- Do not apply when the material surface temperature is below 5°C or above 40°C;
- Do not use on frosty surfaces or surfaces with standing water;
- When bonding to cement or concrete substrates, the substrate must be fully cured and dried for at least 7 days before application; otherwise, adhesion performance may be affected;
- Do not use on materials that may exude oils, plasticizers, or solvents, such as surfaces of oil-impregnated wood.

Physical Properties (23°C, 55% RH)

Item	Result
Appearance	Purple-gray fluid
Density, g/cm ³	1.43
Viscosity, mPa·s	6000
Tack-Free Time, min	50
Low Temperature Flexibility (-10°C)	No Cracks
Water Impermeability (0.3MPa, 120min)	Watertight
Tensile Strength, MPa	1.2
Elongation at Break, %	400
Coating Rate, kg/m ²	2.0-2.2

Application Instructions

1. Application Method:

- Substrate Requirements: The substrate surface must be clean, free of debris, oil stains, firm, and without dusting. Repair any cracks or defects before application. Inside and outside corners should be rounded. Metal surfaces must be rust-removed first. Fully wet the substrate before application, with no standing water.
- Material Preparation: Stir the coating thoroughly before use to ensure no sedimentation.
- Application: Can be applied by troweling or mechanical spraying. It is recommended to apply in multiple coats to achieve the design thickness. Apply subsequent coats only after the previous coat is dry to the touch.
- Protective Layer/Finishing: Apply protective layers or finishing materials only after the coating film is fully cured. Prevent sharp objects from puncturing



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the coating during construction.

2. Precautions

- Use the product within its shelf life. Do not use expired product.
- Strictly follow the procedures established during adhesion testing.
- The product releases trace chemicals during curing. Ensure adequate ventilation in the workspace. It is non-toxic after curing.
- Avoid direct contact with skin and eyes. Do not ingest.
- Keep out of reach of children.
- Ambient temperature and humidity affect the curing speed of the coating.

Monitor

environmental changes before application and adjust or control accordingly.

Storage and Transport

This product is classified as non-hazardous for transport. Store in a cool, dry place below 27°C. The shelf life is 12 months. Use as soon as possible after receipt.

Packaging

Standard Color: Purple-gray. This product is available in 25kg pails or according to actual customer requirements.

This instruction manual is for reference purposes only and does not carry any warranty. Please test its suitability beforehand.