

Manta MS2024

High-Performance MS Polymer Waterproofing Coating

Description

Manta MS2024 is a new generation of high-performance, eco-friendly liquid waterproofing membrane based on advanced Silane-Modified Polymer (MS Polymer) technology. Formulated with nano-calcium carbonate as a reinforcing agent and compounded with specialized functional additives, this coating delivers the ultimate balance of superior durability, extreme weather resistance, and environmental safety. It cures via ambient moisture to form a seamless, highly elastic, and impermeable rubber-like barrier.

Typical Physical Properties

Manta Code:	MS2024
Appearance:	Viscous Liquid(Available in black, white, gray, blue)
Density ($\rho_{20^{\circ}\text{C}}$, g/cm ³)	1.370-1.390
Tack-Free(23°C±2 humidity 50)	Approx. 20-30 minutes
Hardness(Shore A)	30±5
Tensile Strength(MPa)	≥1.5
Elongation at break (%)	≥200
VOC %	≤5%

Application

- Construction Waterproofing & Thermal Protection:** Ideal for seamless waterproofing and thermal reflection (for light colors) on new and existing roofs, exposed floors, basements, and exterior walls.
- Infrastructure & Public Facilities:** Highly durable for bridges, subways, tunnels, and highways. Highly recommended for sensitive environments like archives, libraries, and historical heritage sites due to its solvent-free nature.
- Metal & Exterior Protection:** Provides excellent waterproofing, anti-corrosion, and UV shielding for aluminum balconies, window awnings, corrugated metal roofing, and storage tanks.
- Bonding & Detail Repair:**

Adhesive: Functions as a structural adhesive for permanent decorative wall panels.

Repair: Exhibits aggressive, primerless adhesion to concrete, wood, ceramics, glass, and metal. Perfect for repairing external facades and sealing critical joints in swimming pools.

Feature

- **Eco-Friendly & Safe:** Ultra-low VOC, solvent-free, completely odorless, and compliant with stringent EU environmental standards.
- **Excellent Workability:** Self-leveling properties with rapid neutral moisture-curing capabilities.
- **Superior Mechanical Seal:** Forms a uniform, highly resilient elastomeric membrane with

exceptional tensile strength, tear resistance, and peel adhesion.

- **Extreme Weatherability:** Remains highly flexible and stable in extreme temperature variations from -60°C to +120°C. Highly resistant to prolonged UV radiation, ozone, and salt spray.
- **Long-Term Durability:** Engineered for a service life exceeding 20 years.
- **Primerless Adhesion:** Bonds tenaciously to the vast majority of building substrates without the need for a primer.

Application Guidelines

1. **Coverage:** Apply a minimum of two coats. Ensure application does not exceed a coverage rate of 1.5 gallons per 100 square feet (approx. 6.11 liters per 10 square meters) per coat to ensure proper curing.
2. **Method (Cross-Hatch):** Allow the first coat to cure sufficiently (walkable) before applying the second coat. The second coat must be applied perpendicular (cross-hatch direction) to the first coat.
3. **Inspection:** Ensure all target surfaces are coated evenly and completely, leaving no gaps, pinholes, or blisters.

Packaging & Storage

Packaging: Available in 5kg (5L / 1-gallon) plastic pails, 20kg (20L / 5-gallon) plastic pails, and 200kg (200L) metal drums.

Storage Conditions: Store in a cool, strictly dry, and well-ventilated area at temperatures below 27°C. Keep away from direct sunlight, moisture, and ignition sources.

Shelf Life: 12 months in original, unopened containers. (Note: Product exceeding the shelf life may still be utilized if it successfully passes standard quality assurance testing).

Transport: Classified and transported as non-hazardous goods. Protect from severe impact and crushing during transit.

Contact Information

Nanjing Manta New Material Co., Ltd

Add: Room 102-247, Building 17, No. 1 Qiliqiao North Road, Nanjing Area of the China (Jiangsu) Pilot Free Trade Zone, Nanjing, China

Factory: Miaoguan Town Industrial Park, Sishui County, Jining City, Shandong Province, China

Mob: 0086 18962800162