MANTA

Technical Data Sheet

Version: 1.0

Manta MS2024

High-Performance SMP-Type Waterproofing Coating

Description

Manta MS2024 is a new generation of high-performance, eco-friendly liquid waterproofing membrane based on silane-modified polymer (SMP type) and nano-calcium carbonate, reinforced with inorganic fillers and functional additives. The coating delivers a 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 (25 °C, g/cm³)	1.370-1.390
Tack-Free Time (23 ± 2 °C, 50% RH)	Approx. 20-30 minutes
Hardness(Shore A)	30±5
Tensile Strength(MPa)	≥1.5
Elongation at Break (%)	≥200
VOC	VOC-free

Application

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

Adhesive: Can be used as an adhesive for permanent decorative wall panels.

Repair: Exhibits strong adhesion to concrete, wood, ceramics, glass, and metal. Suitable for waterproofing repairs on external surfaces, basements, bathrooms and swimming pools.

Feature

- Eco-Friendly: VOC-free, solvent-free, and compliant with EU environmental standards.
- Excellent Workability: Self-leveling with good penetration; rapid, neutral moisture cure.
- Superior Mechanical Seal: Forms a uniform, highly resilient elastomeric membrane with excellent elongation, 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.
- Strong Adhesion: Bonds to most building substrates; test adhesion on the actual substrate before use.
- Versatile Use: Suitable for construction and home improvement projects.

Application Guidelines

1. Substrate: Clean, dry and structurally sound, free of standing water and condensation. The substrate temperature must be at least 3 °C above the dew point; residual moisture can lift the

cured membrane.
2. 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.
3. 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.
4. Inspection: Ensure all target surfaces are coated evenly and completely, leaving no gaps, pinholes, or blisters.
5. Limitations: Not recommended on bituminous membranes (APP/SBS, BUR), where the coating can delaminate, or for areas under permanent ponding water.

Packaging & Storage

Packaging: Available in 5 kg and 25 kg plastic pails.
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 direct sunlight, rain, severe impact and crushing during transit.

Contact Information

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