MANTA

Technical Data Sheet

Version: 1.0

Manta WS136

Silicone Water-Repellent Additive for Coatings

Description

Manta WS136 is a solvent-free aqueous emulsion of functional polyorganosiloxanes. Formulated specifically as a water-repellent additive, it is highly compatible with diverse water-borne architectural systems, including silicate paints, synthetic resin dispersions, masonry coatings, and stucco.

By significantly reducing capillary water uptake while imparting an outstanding surface water-beading (roll-off) effect, WS136 ensures superior, long-lasting weather protection. It achieves this powerful moisture defense without compromising the coating system's inherent water vapor permeability (breathability).

Equivalent to Wacker SILRES® BS 1306.

Typical Physical Properties

Manta Code:	WS136
Chemical Name:	Aqueous emulsion of functional polysiloxane
Appearance:	Milky white to white liquid
Active Ingredients:	Approx 50% by weight
Density (20°C, g/cm³):	Approx 1
pH:	Approx 9

Features

- Exceptional Hydrophobicity: Significantly reduces capillary water absorption in exterior coatings.
- Lotus Effect: Imparts an outstanding, long-lasting surface water beading effect.
- Highly Breathable: Maintains uncompromised water vapor permeability within the coating matrix.
- Eco-Friendly: Solvent-free, low-VOC aqueous formulation.

Application

WS136 is designed for integration into waterborne coating systems and primers. It exhibits excellent shear stability and can be easily incorporated at any stage of production, including the let-down phase or as a post-addition directly into the finished paint.

Recommended Dosage: 1.0% to 5.0% by weight, calculated on the total weight of the final coating formulation. (Preliminary lab trials are recommended to determine the optimum dosage).

Processing Note: To ensure complete homogeneity, stir the emulsion thoroughly before use.

Packaging

20-25kg/plastic pail, 180-200kg/internally lined steel drums (or high-density PE drums).

Safety and Storage

The product is sensitive to frost and heat and should be stored in a cool, ventilated, dry place indoors, away from the sun and rain, and should not be stored at temperatures below 0°C or above 40°C, as irreversible damage may occur. In the case of suspected frost or heat damage, the usability of the product must be checked before processing. Stir well before use to ensure the product is homogeneous.

Shelf life is 12 months in unopened original containers stored correctly. After this date the product may still be used if it meets the technical specifications.

Contact Information

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