MANTA

Technical Data Sheet

Version: 1.0

Manta WS360

Silane/Siloxane Waterproofing Emulsion

Description

Manta WS360 is a water-reducible, solvent-free emulsion based on organically modified silanes and siloxanes. It is designed primarily as a high-performance mass waterproofing admixture for freshly mixed concrete, and can also be utilized for the topical impregnation of cured concrete surfaces.
Equivalent to: Wacker SILRES® BS 36

Typical Physical Properties

Manta Code:	WS360
Chemical Name:	Emulsion of organically modified silanes and siloxanes
Appearance:	Milky white liquid
Active Substance Content(%):	approx. 50
Density (20°C, g/cm³):	approx. 0.95

Properties

- Eco-Friendly Profile: Water-borne, solvent-free formulation.
- High Stability: Exhibits excellent storage shelf-life and outstanding dilution stability.
- Alkali Resistance: Highly resistant to the extreme alkaline environment of fresh cementitious matrices.
- Breathable Moisture Barrier: Significantly reduces capillary water absorption while fully maintaining the substrate's water vapor permeability (breathability).

Applications & Dosage

Manta WS360 is primarily recommended as an integral waterproofing admixture for concrete and specialized cementitious products.

- For Non-Load-Bearing Concrete (Diluted Use): WS360 can be pre-diluted with clean water at a ratio of 1:4 (WS360 : Water). The recommended dosage of this diluted solution is 1.0% to 5.0% by weight of the cement content.
- Standard Integral Addition (Neat Use): If using the concentrated product directly, the recommended dosage is 0.1% to 1.0% by weight of the cement content.
- Mixing Guidelines: Add WS360 directly to the gauging water or introduce it during the active mixing process. Do not pre-mix WS360 directly with other concrete admixtures prior to addition.

Packaging

In 60kg, 120kg plastic drums and can be customized.

Safety and Storage

Temperature Sensitivity: This emulsion is sensitive to extreme temperatures. Store indoors in a cool, well-ventilated, and dry area. Protect strictly from frost and direct sunlight. Storage temperatures must remain between 5°C and 40°C (41°F - 104°F) to prevent irreversible emulsion breakage.
Homogenization: After prolonged storage, minor phase separation or creaming may occur. Thoroughly stir or agitate the product before use to ensure complete homogeneity.
Shelf Life: 12 months in original unopened containers. Material that has passed its shelf life may still be viable, provided it passes standard quality control testing before processing. It's a non-hazardous substance for transport.

Contact Information

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