

Manta MSEP

High-Quality Potassium Methyl Siliconate (Aqueous Solution)

Description

Manta MSEP is a water-reducible potassium methyl siliconate solution, engineered as a premium-grade water repellent for highly porous mineral substrates. Positioned as the superior alternative to conventional sodium siliconates, its unique potassium-based chemistry significantly mitigates the risk of unsightly white salt deposits (efflorescence), making it the ultimate choice for high-aesthetic architectural surfaces.

Following application and deep penetration into the substrate's capillary tract, the active siliconate reacts with atmospheric carbon dioxide (CO₂). This rapid curing process constructs an invisible, highly cross-linked polymethylsiloxane network both internally and across the treated surface.

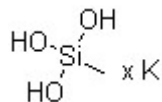
This permanent, insoluble silicone matrix delivers exceptional capillary moisture defense, drastically cutting water absorption while flawlessly maintaining the material's natural vapor permeability (breathability). Treated structures exhibit outstanding weatherability, anti-aging performance, and resistance to dirt pick-up.

Equivalent grade: Wacker SILRES BS 16, Silblock* WSK masonry water repellent, Dow XIAMETER™ OFS-6778 / XIAMETER™ OFS-0777 Siliconate.

Typical Physical Properties

Manta code:	MSEP
Chemical Name:	Methyl siliconate aqueous solution
Synonyms:	Potassium Methylsilanetriolate; Methylsilanetriol potassium salt
CAS No.:	31795-24-1
EINECS No. :	250-807-9
Appearance:	Colorless to light yellow liquid
Solid content:	Customizable (Typically 30%, 40%, or 52%±2%)
Specific gravity (25 °C):	1.30
pH:	13
Flammability:	Not flammable

Chemical Structure:



Properties

- Efflorescence-Free: Potassium-based formulation ensures a clean, natural finish without white salt staining.
- Exceptional Durability: Highly resistant to UV degradation, extreme temperatures (-50°C to 150°C), and weathering.
- Cost-Effective Dilution: Highly concentrated active ingredient; can be easily diluted with tap

water directly on-site.

Applications

1. Premium Architectural & Natural Stone Protection

The ultimate non-efflorescing water repellent for high-value aesthetic surfaces. Highly recommended for the treatment of natural marble, granite, terracotta, premium exposed concrete, and porous facing bricks where preserving the flawless original appearance is critical.

2. High-End Coatings & Paint Additives

Serves as a performance-boosting additive in premium water-borne architectural coatings and alkali silicate paints. Significantly enhances hydrophobicity, weather resistance, and color retention without compromising bonding strength.

3. Advanced Oilfield & Drilling Operations

Functions as an elite shale inhibitor and fluid modifier in oil drilling, efficiently adjusting mud viscosity. In Enhanced Oil Recovery (EOR), it is injected to stabilize formation integrity and prevent crustal matrix collapse.

4. Specialty Wood & Cellulosic Treatments

When a dilute Manta MSEP solution is precisely neutralized with aluminum sulfate or aluminum nitrate, it becomes an exceptional impregnating agent, imparting outstanding water repellency and acting as a potent preservative for wood and fiberboards.

Packaging

In 50kg, 250kg drum, 1350kg IBC

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is 12 months.

Contact Information

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