

Manta MS7500

Silyl-Terminated Polyether

Description

Manta MS7500 is a Silyl-Terminated Polyether (STPE) polymer designed as the ultimate binder for semi-structural adhesives and heavy-duty sealants. Engineered with an advanced polyether backbone and precision methyl-dimethoxy silane functional groups, it offers a rare combination of high modulus, superior tensile strength, and exceptional elongation.

Whether utilizing hot or cold processing, this polymer provides an industry-leading balance of properties. It maintains stable mechanical characteristics across a wide temperature range while ensuring excellent reactivity and long-term shelf stability. Formulations based on this resin are 100% solvent-free and isocyanate-free, making them the premier choice for high-strength, eco-friendly industrial applications.

Typical Physical Properties

Manta code:	MS7500
Chemical Name:	Silane terminated polyether
Appearance	Slight yellow viscous liquid
Viscosity (25°C) / mPa·s:	40000-60000
Gravity(g/cm ³)	1.002 ~ 1.005
Flash Point(°C)	> 100
Water-Soluble	Virtually Insoluble
Surface drying time (min):	
Tensile strength (MPa):	
Elongation at break:	
Hardness (Shore A):	
pH value:	6.0 ~ 9.0
Activity:	
Modulus:	High Modulus

Properties

- Enhanced Hardness & Structural Rigidity: Ideal for high-modulus sealants and structural adhesives requiring high Shore A hardness.
- Accelerated Productivity: Delivers a significantly faster tack-free time, enabling quicker handling and shorter production cycles.

Applications

Manta MS7500 is engineered for demanding environments where high load-bearing capacity and elastic recovery are critical. Its versatile formulation latitude makes it suitable for:

- Industrial & Semi-Structural Adhesives

- Transportation & Automotive
- Infrastructure & Waterproofing
- High-End Construction
- Specialty DIY

Packing

50kg plastic drum lined with aluminum foil bag; 200kg drum lined with aluminum foil bag;
1000kg IBC/Tote;
Can be customized.

Safety and Storage

Keep in a cool and dry place and avoid storage in direct sunlight. Shelf life is 12 months. It is non-hazardous substance.

Contact Information

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