

Manta MS350

MS Polymer / Silyl-Terminated-Polyether

Description

Manta MS350 is a silicone reinforced polyether based silane terminated polymer suitable for moisture curing adhesive formulations. It is a clear, low viscosity adhesive, this polymer complements the elastomeric adhesive series, and can be easily mixed with this product group in different proportions to tailor the respective application properties. MS350 is based on alpha technology, that is to say the structure of the nitrogen atoms is close to the moisture active silicon atoms. It hydrolyzes in the presence of moisture, ultimately forming a stable siloxane network, initiated by mild catalysis, rather than heavy metal ions.

Typical Physical Properties

Manta code:	MS350
Chemical Name:	Silane terminated polyether
Appearance	Transparent liquid
Viscosity (25°C) / mpa·s:	500-1000
Density (25°C) / g/cm ³	1.13

Properties

- Easy compounding with conventional additives
- Low viscosity provides broader formulation flexibility without the need for solvents or plasticizers
- Tin-free catalyst system
- Rapid cure to a non-tacky surface
- Broad adhesion to a wide range of substrates
- Long shelf life of the finished product

Applications

Wood bonding.

Processing

Manta MS350 dissolves readily in standard organic solvents but is nearly insoluble in water. Upon exposure to moisture, the polymer undergoes a slow hydrolysis reaction, releasing methanol and initiating cross-linking. This reactivity with atmospheric humidity must be strictly managed during storage and processing to prevent premature gelation or an unintended increase in viscosity. MS350 is compatible with conventional compounding methods and standard mixing equipment. To adjust the flexibility or modulus of formulations based on MS350, it is highly recommended to blend it with other silane-modified polymers, such as Manta M310.

While the curing of MS350 does not strictly require organometallic catalysts, dioctyltin (DOT) can be

utilized if a specific curing profile or accelerated reactivity is required.

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 16 months. It is non-hazardous substance.

Contact Information

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