

# M3030

MS Polymer / Silyl-Terminated-Polyether

## Description

Manta M3030 is an alkoxy silane terminated polyether polymer. It could be applied in moisture curing elastic sealant, elastic structure sealant and sealing coatings. Sealants based on M3030 not only have excellent adhesion properties, but also have adhesion to broad range of substrates. Different from polyurethane and silicone system, this formulation has no solvent and isocyanate, as well as no bubbles and odor generated from curing. It is especially suitable for construction industry, transportation industry and general industry application.

## Typical Physical Properties

Manta code:	M3030
Chemical Name:	Silane terminated polyether
Appearance	Yellow viscous liquid
Flash Point (°C):	≥237
Boiling Point (°C):	>250
Viscosity (25°C) / mpa·s:	10000 - 15000
Density (25°C) / g/cm <sup>3</sup> :	1.02 - 1.05

## Properties

- Moderate Activity, Moderate Modulus
- Good adhesion strength
- Fast curing, non-tin catalysts used if needed, more eco-friendly
- Excellent aging and yellowing resistance
- Excellent water resistance, resistance to chemical corrosion
- Excellent elastic recovery rate
- Excellent storage stability
- Solvent free, odorless, eco-friendly
- Could be blended with other Manta polymers

## Applications

M3030 polymer is used as base polymer in elastic sealants, elastic structure sealants, encapsulate adhesives and coatings. The curing mode of the polymer is moisture curing, it can be made into a single component or two components system.

- Low modulus construction sealant
- Transportation industry elastic sealant
- Personal DIY sealant
- Eco-friendly decoration sealant

### Processing

Manta M3030 polymer can be quickly dissolved in ordinary organic solvents (such as ethanol), but almost insoluble in water. So, the raw materials in the formula system are mostly oil-soluble substances. M3030 polymer curing mechanism, silane of both ends with the help of the catalyst react with water forming hydrolysis to generate Silanol, Silanol is crosslinked with catalyst to form a siloxane bond, resulting in a network-like structure. Although the M3030 polymer has a highly reactive group, it can remain stable in the air for a period of time in a catalyst-free environment. Water is a very important factor during the storage and processing. In order to stabilize the processing and storage, it must add a certain amount of chemical water removal agent, we recommend the use of vinyl trimethoxysilane.

Conventional mixing process can be suitable for M3030 POLYMER. For more technical support, please consult our technical engineers.

### Packaging

In 50kg, 200kg, 1000kg IBC

### 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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