

D10

silane terminated polyether

Description

Manta D10 is a silane terminated polyether, which is endcapped by dimethoxy(methyl)silyl methylcarbamate group (alpha-effect) group, the main chain is PPO (polypropylene oxide). It hydrolyzes in the presence of moisture and finally form a stable siloxane network. It is a clear liquid polymer with the high reactivity, which is made into the sealant and adhesive. Then products have excellent adhesion, weather resistance, better environmental protection etc.

The Equivalent List

Manta	Wacker	Kenaka
D10		

Typical Physical Properties

Manta code:	D10
Chemical Name:	Dimethoxy(methyl)silylmethylcarbamate-terminated polyether
Appearance:	Colorless transparent liquid
CAS NO.:	611222-18-5
Density (25°C)/g/cm ³ :	1.005-1.006
Viscosity (25°C) / mpa·s:	7000 - 10000
Chemical Structure:	



Properties

- Excellent aging and yellowing resistance.
- Simple compounding with conventional auxiliaries
- Plasticizer free if desirable
- Tin free
- Transparent systems
- Dood mechanics
- Rapid curing
- Broad adhesion profile
- Long shelf life

Applications

Used as a reactive binder for sealants and adhesives, potting compounds and coatings. Curing takes place at ambient temperature in the presence of both moisture and catalyst.

Depending on the formulation, either prepared as one part or two-part systems, shows good adhesion to a wide variety of substrates even without pretreatment.

The low glass transition temperature allows stable mechanical properties over a wide temperature range.

Processing

Manta D10 can react with water or by absorbing moisture from the air, so it is important to isolate moisture during storage and production.

The dosage of D10 can be flexibly changed in the formulation design, and it can be mixed with most fillers such as nano calcium carbonate, heavy calcium carbonate, fumed silica, quartz powder, diatomaceous earth, aluminum hydroxide, etc.

In order to avoid pre-curing of the product, it is necessary to remove water from the filler.

VTMO is generally used as a water scavenger.

Commonly used plasticizers are phthalates (PPG, DOP, DINP, DIDP, etc.), low molecular weight polyethers, etc.

In order to get better performance, you can mix other additives together, for example, tackifiers, antioxidants, mildew inhibitors, light stabilizers, etc.

Packaging

50kg plastic drum, 100kg drum, 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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