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TECHNICAL DATA SHEET

Silmer[®] TMS Mo 1000
Monofunctional Hydroxyalkyl Silicone

DESCRIPTION

Silmer[®] OH Mo 1000 is a 100% active cross-linkable monofunctional silicone pre-polymer. It is used to modify various polymers or surfaces or as an additive in condensation cured resin systems to improve the surface and physical properties. The alkyoxy silane functionality in **Silmer TMS Mo 1000** gives permanent binding with these polymers or surfaces.

TYPICAL PROPERTIES

Appearance	Clear liquid
Colour, Gardner	1
Viscosity at 25°C, cps	15
Solid content	100%

APPLICATION & USES

Silmer TMS Mo 1000 can be co-reacted into various condensation formed polymers for coatings, plastics, resins, composites and other applications to incorporate a silicone moiety into the polymer structure. The reaction can be facilitated with acid or base, but will proceed slowly without catalysis.

Silmer TMS Mo 1000 can also be cross-linked into a condensation cured coating, encapsulant, composite or other matrix. Typically **Silmer TMS Mo 1000** is reactive with polymers that contain hydroxyl, amine, carboxylic acid, phenol, or mercapto.

Silmer TMS Mo 1000 can also be used to treat surfaces with reactive sites such as concrete, roofing, rubber, countertops, metals and others.

When co-reacted in any of these scenarios, **Silmer TMS Mo 1000** improves the surface and physical properties. The benefits include durable slip, anti blocking, mar and stain resistance, surface smoothness, feel, flexibility, and hydrophobicity.

For polymer modifications the typical dosage ranges between 2.0-5.0%. In curing and surface treatment applications, the recommended dosage is between 0.1-1.5%.

SHELF LIFE

When stored between 10 and 40°C in the original unopened container, **Silmer TMS Mo 1000** has a shelf life of 36 months from the date of manufacture.

PACKAGING

Silmer TMS Mo 1000 is supplied in 20kg pails and 200kg drums.

LEGAL DISCLAIMER

Siltech Corporation believes that the information in this technical data sheet is an accurate description of the typical uses of the product. **Siltech Corporation**, however, disclaims any liability for incidental or consequential damages, which may result from the use of the product that are beyond its control. Therefore, it is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Nothing contained herein is to be considered as permission or a recommendation to infringe any patent or any other intellectual property right.

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