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TECHNICAL DATA SHEET

Silmer[®] ACR Mo 1000
Monofunctional Silicone Acrylate

DESCRIPTION

Silmer[®] ACR Mo 1000 is a 100% active cross-linkable monofunctional silicone acrylate pre-polymer. It is used to modify acrylic or other free radical formed polymers or as an additive in UV/EB curing systems to improve the surface and physical properties of various polymers. The acrylate functionality in **Silmer ACR Mo 1000** gives a permanent binding into the matrix.

TYPICAL PROPERTIES

Appearance	Clear liquid
Colour, Gardner	2
Viscosity at 25°C, cps	20
Solid content	100%
Molecular Weight, gm/mol	~1000
Equivalent weight, gm/mol	~1000

APPLICATION & USES

Silmer ACR Mo 1000 can be co-reacted into acrylic or polyolefin polymers for coatings, plastics, resins, composites and other applications to incorporate a silicone moiety into the polymer structure.

Silmer ACR Mo-1000 can also be cross-linked into a UV, EB or other free radical cured coating film, composite or SLA type 3D printer resin.

When co-reacted in either scenario, **Silmer ACR Mo 1000** improves the surface and physical properties of the polymers. 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 UV curing applications, the amount recommended ranges between 0.1-1.5%.

SHELF LIFE

When stored between 10 and 40°C in the original unopened container, **Silmer ACR Mo 1000** has a shelf life of 24 months from the date of manufacture.

PACKAGING

Silmer ACR 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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