



SILTECH CORPORATION
225 Wicksteed Avenue
Toronto, Ontario, Canada, M4H 1G5
(416)424-4567 (Tel) (416)424-3158 (Fax)

TECHNICAL DATA SHEET

Silmer[®] ACR Di-10
Silicone Acrylate Pre-polymer

DESCRIPTION

Silmer[®] ACR Di-10 is a 100% active silicone acrylate pre-polymer. It is used to modify acrylic polymers to improve its surface and physical properties. It is also used as an additive in UV curing systems.

TYPICAL PROPERTIES

Appearance	Clear to slightly hazy liquid
Specific gravity at 25°C	0.96
Colour, Gardner	4 Max
Viscosity at 25°C, cps	20-70
Solid content	100%
Molecular Weight	1,100
Equivalent weight	550

APPLICATION & USES

Silmer[®] ACR Di-10 can be co-reacted into acrylic polymers for coatings, plastic, resin and other applications to incorporate a silicone moiety into the polymer structure. When co-reacted during the polymerization stage, **Silmer[®] ACR Di-10** improves the surface and physical properties of the polymers. The benefits include better slip, anti blocking, mar resistance, surface smoothness, flexibility and hydrophobicity. The acrylate functionality in **Silmer[®] ACR Di-10** gives a permanent binding into the matrix of the polymers. It also enables the product to be used in UV curing systems.

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 in the original, unopened containers between 10 and 40°C, **Silmer[®] ACR Di-10** has a shelf life of 24 months from date of manufacture.

PACKAGING

Silmer[®] ACR Di-10 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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