



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

TECHNICAL DATA SHEET

**Silmer® OH ACR D4**  
Silicone Acrylate Functional Pre-polymer

**DESCRIPTION**

**Silmer® OH ACR D4** is a low molecular weight multi-functional silicone acrylate pre-polymer. It is used to modify acrylate polymers to improve its surface and physical properties or in energy cured or other free radical cured systems as a resin.

**TYPICAL PROPERTIES**

Appearance	Clear to hazy greenish liquid
Viscosity, cps	375
Active Content, %	100
Colour, Gardner	2
Molecular Weight, gm/mol	2400
Equivalent Weight, gm/mol	600

**APPLICATION & USES**

**Silmer OH ACR D4** can be co-reacted into acrylate polymers and UV cured or other free radical systems for coatings, plastics, resins and other applications to incorporate a silicone moiety into the polymer structure. When co-reacted during the polymerization stage, **Silmer OH ACR D4** improves the surface and physical properties of the polymers. These benefits include improved slip, antiblocking, mar resistance, surface smoothness, flexibility and hydrophobicity. The acrylate functionality in **Silmer OH ACR D4** gives a permanent binding into the matrix of the polymers.

The typical recommended amount of **Silmer OH ACR D4** ranges from 2.0-5.0%. As an additive in UV curing system, the recommended amount ranges from 0.1-1.5%.

**SHELF LIFE**

When stored in the original, unopened containers between 10 and 40°C, **Silmer OH ACR D4** has a shelf life of 24 months from date of manufacture.

**PACKAGING**

**Silmer OH ACR D4** 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.

**SILMER®** is a registered trademark of **Siltech Corporation**, Toronto, Ontario, Canada.