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TECHNICAL DATA SHEET

Silmer® OH ACR C50

Silicone Acrylate Functional Pre-polymer

DESCRIPTION

Silmer® OH ACR C50 is a high 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	700
Active Content, %	100
Colour, Gardner	2
Molecular Weight, gm/mol	12000
Equivalent Weight, gm/mol	4000

APPLICATION & USES

Silmer OH ACR C50 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 C50** 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 C50** gives a permanent binding into the matrix of the polymers.

The typical recommended amount of **Silmer OH ACR C50** 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 C50** has a shelf life of 24 months from date of manufacture.

PACKAGING

Silmer OH ACR C50 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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