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TECHNICAL DATA SHEET

Silmer® ACR Di-50

Silicone Acrylate Functional Pre-polymer

DESCRIPTION

Silmer® ACR Di-50 is a high molecular weight di-functional silicone acrylate polymer. It is used to give permanent slip and mar resistance to UV-curable coatings systems. It is also used to modify acrylate polymers to improve its surface and physical properties.

TYPICAL PROPERTIES

Appearance	Clear liquid
Colour, Gardner	1
Viscosity, cps	300
Active Content, %	100
Water Solubility (1 % & 10%)	Insoluble
Specific Gravity (25^{o}C)	0.98
Hydroxyl Value	7 max

APPLICATION & USES

Silmer ACR Di-50 can be co-reacted into acrylate polymers and UV cured 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 ACR Di-50** improves the surface and physical properties of the polymers. These benefits include improved release, slip, antiblocking, mar resistance, surface smoothness, flexibility, impact resistance and hydrophobicity. The acrylate functionality in **Silmer ACR Di-50** gives a permanent binding into the matrix of the polymers.

The typical recommended amount of **Silmer ACR Di-50** ranges from 2-20%. 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^{0}C, **Silmer ACR Di-50** has a shelf life of 24 months from date of manufacture.

PACKAGING

Silmer ACR Di-50 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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