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TECHNICAL DATA SHEET

Silmer[®] VIN C50

Reactive Silicone Pre-polymer

DESCRIPTION

Silmer[®] VIN C50 is a tri-functional high molecular weight silicone pre-polymer with reactive vinyl groups. It is used to modify various polymers in order to improve their surface and physical properties.

TYPICAL PROPERTIES

Appearance	Clear to hazy liquid
Colour, Gardner	1
Viscosity, cps	250
Active Content %	100
Solubility (1 % & 10%)	
-Water	Insoluble
-IPA	Soluble
-Aromatic Solvents	Insoluble
Specific Gravity (25°C)	0.96
% Vinyl	0.701
Vinyl meq.	0.260

APPLICATION & USES

Silmer[®] VIN C50 can be co-reacted into various polymers for coatings, plastics, resins and other applications to incorporate a silicone moiety into the polymer structure. When co-reacted during the polymerization stage, **Silmer[®] VIN C50** improves the surface and physical properties of the polymer. These benefits include better slip, antiblocking, mar resistance, surface smoothness, flexibility and hydrophobicity. The vinyl functionality in **Silmer[®] VIN C50** gives a permanent binding into the matrix of the polymers.

Typically **Silmer[®] VIN C50** is reactive with polymers that contain the following reactive groups and or system:

- epoxide
- carboxylic acid
- esters
- isocyanates

Typical usage levels are between 1.0 - 3.0% wt.

SHELF LIFE

When stored in the original, unopened containers between 10 and 40°C, **Silmer[®] VIN C50** has a shelf life of 36 months from date of manufacture.

PACKAGING

Silmer[®] VIN 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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