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TECHNICAL DATA SHEET

Silmer® NCO Di-100

Isocyanate Functional Pre-Polymer

DESCRIPTION

Silmer® NCO Di-100 is linear di-functional isocyanate terminated silicone pre-polymer.

TYPICAL PROPERTIES

Appearance	Clear to opaque liquid
Colour, Gardner	1
Viscosity at 25°C, cps	3,000
Solid Content, %	100
NCO Content, %	1.2
Water Solubility (1% & 10%)	Insoluble/Insoluble
Specific Gravity (25°C)	0.98
Molecular Weight, gm/mol	7,900

APPLICATION & USES

Silmer NCO Di-100 can be co-reacted into various alcohol and amine functional polymers for coatings, plastics, resin and other applications to incorporate a silicone moiety into a polymer structure. The reaction of **Silmer NCO Di-100** and an alcohol functional polymer will result in a silicone urethane polymer. The reaction of **Silmer NCO Di-100** and an amine functional polymer will result in a silicone polyurea polymer.

When modifying a polymer with silicone one achieves increased elongation, improved flexibility, increased impact resistance - especially at cold temperatures, increased slip and softness.

SHELF LIFE

When stored in the original, unopened containers between 10 and 40^{0}C, **Silmer NCO Di-100** has a shelf life of 12 months from date of manufacture.

SAFETY

Before handling, read the Material Safety Data Sheet and container label for safe use, physical and health hazard information.

THIS MATERIAL IS NOT FOR MEDICAL OR DRUG USE.

PACKAGING

Silmer NCO Di-100 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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