



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

TECHNICAL DATA SHEET

**Silmer<sup>®</sup> NCO Di-100**  
Isocyanate Functional Pre-Polymer

**DESCRIPTION**

**Silmer<sup>®</sup> NCO Di-100** is linear di-functional isocyanate terminated silicone pre-polymer.

**TYPICAL PROPERTIES**

Appearance	Clear to cloudy liquid
Colour, Gardner	1
Viscosity at 25°C, cps	1,800
Solid Content, %	100
NCO Content, %	1.1%
Water Solubility (1% & 10%)	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 based 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 based polymer will result in a silicone urethane polymer. The reaction of **Silmer NCO Di-100** and an amine based polymer will result in a silicone polyurea polymer.

When modifying a polymer with silicone one typically 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°C, **Silmer NCO Di-100** has a shelf life of 12 months from date of manufacture.

**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.

**SILMER<sup>®</sup>** is a registered trademark of Siltech Corporation, Toronto, Ontario, Canada.