



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

TECHNICAL DATA SHEET

**Silmer<sup>®</sup> UR-5050**  
Silicone Urethane Resin

**DESCRIPTION**

**Silmer<sup>®</sup> UR-5050** is a 45% active high molecular weight Silicone-Urethane resin that is diluted in Isododecane. **Silmer<sup>®</sup> UR-5050** has and INCI name of **Bis Hydroxypropyl Dimethicone/SMDI Copolymer**.

**TYPICAL PROPERTIES**

Appearance	Clear Liquid
Specific gravity at 25°C	0.87 gm/ml
Colour, Gardner	< 1
Viscosity at 25°C, cps	2,000 - 10,000
Solid content	45% in Isododecane
Refractive Index at 25°C	1.418
Diluents	IPA, Isododecane

**APPLICATION & USES**

**Silmer<sup>®</sup> UR-5050** is used primarily as a silicone barrier and film former to impart water repellency and softness in such products as transfer resistant lipsticks, cosmetic creams and in shampoos and conditioners.

Depending on the application and the required aesthetics, the amount of **Silmer<sup>®</sup> UR-5050** used ranges from 0.5%-5.0% weight percent based on the total formulation.

**SHELF LIFE**

When stored in the original, unopened containers between 10 and 40°C, **Silmer<sup>®</sup> UR-5050** has a shelf life of 48 months from date of manufacture.

**PACKAGING**

**Silmer<sup>®</sup> UR-5050** is supplied in 15kg pails and 170kg 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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