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TECHNICAL DATA SHEET

Silmer® UR-5050
Silicone Urethane Resin

DESCRIPTION

Silmer® UR-5050 is a 45% active high molecular weight Silicone-Urethane resin that is diluted in Isododecane. **Silmer UR-5050** has an 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	6,000
Solid content	45% in Isododecane
Refractive Index at 25°C	1.418
Diluents	IPA, Isododecane

APPLICATION & USES

Silmer UR-5050 is a silicone-urethane resin that forms flexible films in personal care applications. It is ideal for use in color cosmetics, especially lip applications, where it not only forms transfer-resistant flexible films, but also aids with moisture retention. **Silmer UR-5050** elicits a soft sensorial and helps formulators achieve uniform color coverage on skin.

Depending on the application and the required aesthetics, the amount of **Silmer 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 UR-5050** has a shelf life of 24 months from date of manufacture.

PACKAGING

Silmer 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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