

ADDSiL™ 2025 Carbinol Silicone Fluid

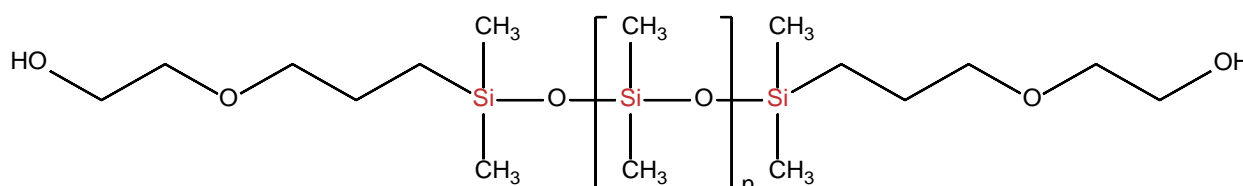
INTRODUCTION

ADDSiL™ 2025 is a double-ended mono-hydroxyl functional silicone prepolymer designed to chemically react with isocyanate (-NCO), amine (-NH₂), carboxyl (-COOH), or epoxy functional groups. It is ideal for the synthesis of silicone-modified polyurethane (PU), polyurethane dispersion (PUD), thermoplastic polyurethane (TPU), and various modified polyester and acrylic resins.

KEY FEATURES & BENEFITS

- Enhances wear resistance and provides a silky-smooth feel
- Offers anti-blocking, anti-fouling, and anti-graffiti effects
- High reactivity with -NCO, -NH₂, -COOH, and epoxy groups
- Low surface tension, promotes flow and leveling
- Excellent compatibility with a wide range of resin systems

CHEMICAL STRUCTURE



PHYSICAL PROPERTIES

Color and Appearance	Yellow clear liquid
Average Molecular Weight	950
Viscosity (25°C), cSt	30-100
Refractive Index, (25°C)	1.4350
Solid Content, 120°C/2h, %	Min. 90
Hydroxyl Value mg KOH/g	120

These values are typical and not intended for use in specifications.

APPLICATIONS

- Synthesis of silicone-modified PU resins and dispersions
- Silicone-modified TPU, polyester, and acrylic resins
- Two-component PU coatings and amino baking paints

RECOMMENDED DOSAGE

In PU synthesis, ADDSiL™ 2025 can be copolymerized with isocyanates such as MDI or TDI at approximately 85°C, or IPDI at around 90°C. It may

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be added together with polyols or incorporated in a post-synthesis step for a stepwise reaction. A dosage of 0.2-0.5% is typically sufficient to achieve demolding and anti-blocking effects, while higher levels between 3-10% can impart strong silicone feel, hydrophobicity, and anti-fouling properties.

PACKING

ADDSiL™ 2025 is supplied in 25Kg pail or 200Kg steel drum.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

STORAGE

In the original unopened packaging, ADDSiL™ 2025 has a shelf life of 24 months.

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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