

ADDSiL™ 2029 Mono-terminal Bishydroxyl Silicone Prepolymer

INTRODUCTION

ADDSiL™ 2029 is a low molecular weight, mono-terminal silicone prepolymer featuring two highly reactive hydroxyl groups at one chain end. The concentrated bishydroxyl functionality provides high reaction efficiency and enables rapid, directional chemical incorporation into resin backbones. The product shows strong reactivity toward functional groups such as -NCO and -COOH, and is mainly used for reactive silicone modification of polyurethane, polyester, and selected radiation-curable resin systems.

KEY FEATURES & BENEFITS

- Mono-terminal bishydroxyl structure with high reactivity
- High reaction efficiency and fast chemical incorporation
- Polyol-like reactivity suitable for reactive resin modification
- Compatible with polyurethane and polyester resin systems
- Enables reactive silicone modification rather than physical blending
- Low molecular weight with 100% active content

PHYSICAL PROPERTIES

Appearance:	Light yellow transparent liquid
Average Molecular Weight:	400
Active Content (%):	100

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

APPLICATIONS

ADDSiL™ 2029 is used as a highly reactive silicone modifier in polyurethane, polyester, and selected radiation-curable resin systems. Through its mono-terminal bishydroxyl structure, it reacts efficiently with isocyanate or other functional groups during resin synthesis, enabling the incorporation of silicone segments into the polymer backbone.

This modification helps reduce surface tension, improve wetting on substrates and release papers, enhance flow and leveling, and contribute to improved anti-blocking, abrasion resistance, gas permeability, and flexibility of the final materials.

RECOMMENDED DOSAGE

The recommended dosage is 0.1-5.0% according to the application. The product can be added at any stage of production.

PACKING

ADDSiL™ 2029 is supplied in 25Kg pails.

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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™ 2029 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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