

ADDSiL™ 2004 Reactive Hydroxy Silicone Prepolymer

INTRODUCTION

ADDSiL™ 2004 is a hydroxymethyl-terminated reactive silicone additive with significantly higher reactivity than conventional Si-OH functional silicones. Through reaction with isocyanates, it enables the incorporation of silicone segments into polyurethane or amino crosslinked systems, resulting in improved flexibility at low temperatures, enhanced water resistance, superior surface slip, and anti-tear properties. It can also form a permanent low-surface-energy layer on the coating surface.

CHEMICAL STRUCTURE

- High reactivity via -CH₂OH primary hydroxyl functionality
- Improves flexibility, slip, and anti-tear performance
- Enhances water resistance and anti-blocking
- Imparts permanent low surface energy to cured films
- Compatible with polyurethanes, amino systems

PHYSICAL PROPERTIES

Color and Appearance	Yellowish clear liquid
Active Content	100%
Hydroxyl Value	25-30
Molecular Weight	4,000

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

APPLICATIONS

ADDSiL™ 2004 is suitable for any hydroxyl-reactive system, such as polyurethanes and amino crosslinked coatings. It can be used for:

- Resin modification to improve silicone-like properties
- Enhancing slip, anti-blocking, and soft touch
- Imparting anti-soiling and anti-graffiti effects
- Permanent surface modification in coatings and elastomers

USAGE GUIDELINES

ADDSiL™ 2004 can be added at any stage of the formulation process. Recommended dosage varies depending on the target performance:

- 0.2-1.0% for long-lasting soft feel
- 1.0-5.0% for anti-blocking and slip improvement
- 2.0-6.0% for anti-soiling and anti-graffiti properties
- 1.0-6.0% for resin modification to introduce silicone characteristics

Higher dosage may be used when stronger silicone performance is

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desired.

PACKING

ADDSiL™ 2004 is supplied in 25Kg pail or 200Kg 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™ 2004 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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