ADDSiL™ 2033 Mono Methacrylate Terminated Silicones

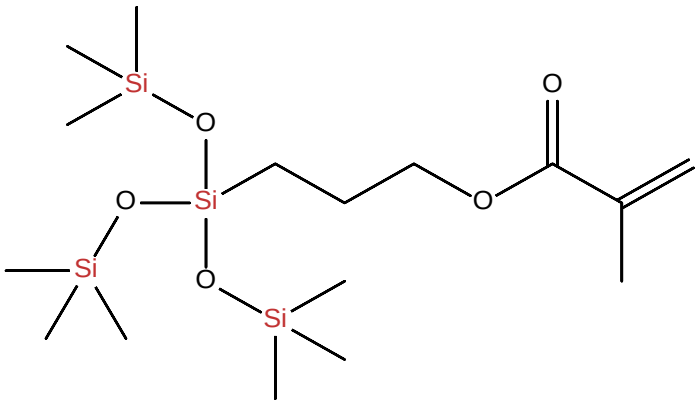
INTRODUCTION

ADDSiL™ 2033 is a mono-functional, methacryloxy-terminated reactive silicone oligomer with high reactivity, specifically designed for the synthesis of silicone-modified acrylic emulsions, functional coatings, and the modification of unsaturated polyester resins. It significantly enhances slip, abrasion resistance, water and oil repellency, antifouling, and anti-graffiti properties.

By reacting with vinyl monomers, ADDSiL™ 2033 enables the preparation of silicone-modified acrylic resins with inherent water and oil repellency. These resins can serve as alternatives to PFAS-containing systems for environmentally friendly, surface-protective coatings.

ADDSiL™ 2033 is also applicable in specialty fields such as contact lenses, imparting oxygen permeability and surface hydrophilicity.

CHEMICAL STRUCTURE



FEATURES & BENEFITS

- High reactivity for copolymerization with various vinyl monomers
- Enables the synthesis of water- and oil-repellent silicone-modified acrylic resins
- Provides a PFAS-free solution for water- and oil-repellent coatings
- Enhances slip, abrasion resistance, and surface smoothness
- Imparts antifouling and anti-graffiti properties
- Improves oxygen permeability in contact lens materials

PHYSICAL PROPERTIES

Color	Colorless
Appearance	Clear liquid

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Molecular Weight	423
Active content (%)	99
Viscosity (25°C, cP)	2-7
Refractive index (25°C)	1.417

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

APPLICATIONS

ADDSiL™ 2033 is widely used in:

- Synthesis of silicone-modified acrylic emulsions and resins
- Functional resin modification for coatings and inks
- Unsaturated polyester resin systems
- Water- and oil-repellent coatings as PFAS alternatives
- High-performance coatings requiring enhanced slip, durability, and surface protection
- Contact lenses requiring improved oxygen permeability

Silicone-modified (meth)acrylic polymers can be synthesized by mixing ADDSiL™ 2033 with a solvent, (meth)acrylic monomers, and a polymerization initiator, followed by heating.

PACKING

ADDSiL™ 2033 is available in 25Kg pails and 200Kg steel drums.

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

When stored at temperatures between 5°C and 35°C in the original unopened containers, ADDSiL™ 2033 has a shelf life of 12 months from the date of production.

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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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