

ADDSiL™ 2152 Methacrylate Terminated Silicone

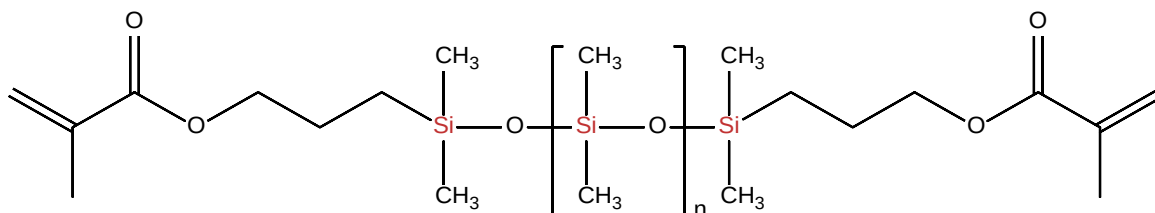
INTRODUCTION

ADDSiL™ 2152 is a difunctional methacrylate-terminated reactive silicone oligomer. The terminal methacrylate groups enable free-radical copolymerization with compatible unsaturated monomers and oligomers, allowing silicone segments to be chemically incorporated into the resulting polymer or crosslinked network.

ADDSiL™ 2152 is particularly suitable for the preparation and modification of silicone-modified acrylic resins, UV-curable coatings and unsaturated polyester systems. The incorporated silicone segments can improve surface slip, flexibility, hydrophobicity and release characteristics of the cured polymer.

CHEMICAL STRUCTURE

CAS No.: 58130-03-3



FEATURES & BENEFITS

- Reactive methacrylate end groups
- Suitable for free-radical copolymerization
- Chemically incorporates silicone segments
- Improves surface slip and smoothness
- Enhances hydrophobicity and release
- Improves flexibility of the polymer matrix

PHYSICAL PROPERTIES

Color	Colorless to light yellow
Appearance	Clear liquid
Molecular Weight	Approx. 2,000
Refractive index (25°C)	1.4108

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

APPLICATIONS

ADDSiL™ 2152 is designed for the synthesis and modification of silicone-containing polymers, including silicone-modified acrylic and methacrylic

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resins, functional coatings and inks, UV-curable systems, and unsaturated polyester resins. Through copolymerization or curing, ADDSiL™ 2152 becomes chemically incorporated into the polymer structure, introducing silicone-derived surface properties and flexibility.

USAGE GUIDELINES

ADDSiL™ 2152 can be copolymerized with compatible acrylate, methacrylate and other unsaturated monomers using conventional free-radical polymerization processes.

For the preparation of silicone-modified (meth)acrylic polymers, ADDSiL™ 2152 may be combined with the selected monomers, a suitable solvent where required, and a polymerization initiator, followed by polymerization under appropriate reaction conditions.

In UV-curable formulations, ADDSiL™ 2152 can be incorporated as a reactive silicone component together with compatible unsaturated oligomers and monomers.

The optimum addition level depends on the resin system, desired silicone modification, curing conditions and required final properties. Compatibility, cure response and finished-film performance should therefore be evaluated in the intended formulation.

PACKING

ADDSiL™ 2152 is available in 25 kg pails and 200 kg 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

Keep the container tightly closed and store in a cool, dry and well-ventilated place away from heat and direct sunlight.

When stored under the recommended conditions in the original unopened container, ADDSiL™ 2152 has a shelf life of 12 months from the date of

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manufacture.

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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