

ADDSiL™ 1346 Fluorinated Silicone Leveling Agent

INTRODUCTION

ADDSiL™ 1346 is a fluorinated polyether-modified silicone leveling agent designed to provide stain resistance, anti-scratch performance, and anti-graffiti properties. It significantly reduces surface tension, improves flow and leveling, enhances hydrophobicity, and increases surface smoothness and gloss. Compatible with both aqueous and solvent-based systems, it is a versatile additive for coatings and polyurethane modification.

KEY FEATURES & BENEFITS

- Excellent flow and leveling performance
- Reduces surface tension significantly (<25 mN/m)
- Enhances hydrophobicity and anti-smudge performance
- Provides slick, soft-touch (matte) surface feel
- Effective in anti-graffiti and anti-cratering formulations
- Compatible with solvent-, water-, and solvent-free systems

PHYSICAL PROPERTIES

Appearance	Light yellow transparent liquid
Color (Pt-Co)	<300
Active Content (%)	100
Water Solubility	Soluble
Density (20°C)	1.030 - 1.070
Viscosity (mPa·s, 25°C)	400 - 1000
Conductivity (50% aqueou,)	<50μS/cm
Surface Tension (mN/m, 25°C)	<25
Refractive Index (25°C)	1.4400 – 1.4600

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

APPLICATIONS

- Industrial coatings
- Waterborne and solventborne formulations
- Polyurethane modification
- Surface treatments requiring anti-graffiti and low energy finishes

RECOMMENDED DOSAGE

For typical applications, ADDSiL™ 1346 is recommended at 0.05-3% of total formulation in solvent-based systems, 0.5-5% based on resin weight in polyurethane modifications, and 0.5-5% of total formulation in water-based systems. It can be added during resin synthesis or post-added. For ease of

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use, pre-dilution with water, alcohols, esters, alkanes, or aromatics is acceptable.

The recommended dosage is 0.1% - 1.0% of the total formulations. The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

PACKING

ADDSiL™ 1346 is supplied in 25Kg/Pail or 200Kg steel drum or according to customer's request.

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 10°C and 35°C in the original unopened containers, ADDSiL™ 1346 has a shelf life of 24 months from the date of production.

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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