

SiSiB® SF2101 Hydrophilic Silicone Polyether Fluid

INTRODUCTION

SiSiB® SF2101 is a 100% active modified silicone polyether fluid designed to provide hydrophilicity, surface smoothness and improved substrate wetting. It is soluble or dispersible in water and can be diluted directly for use without additional emulsification.

It is suitable for textile, nonwoven and coating applications where hydrophilic performance, smoothness and compatibility with organic systems are required. The product also offers improved slip, leveling and anti-blocking properties in selected formulations.

FEATURES & BENEFITS

- Excellent hydrophilicity and fast wetting
- 100% active content
- Water dilutable
- Good substrate wetting performance
- Improves smoothness and slip
- Helps improve leveling and surface uniformity
- Better compatibility with organic resins than conventional PDMS
- Low yellowing tendency
- Nonionic character
- Suitable for textile and nonwoven finishing

PHYSICAL PROPERTIES

Color:	Colorless to light yellow
Appearance:	Transparent liquid
Ionicity:	Non-ionic
Purity (%):	100
Viscosity (mPa·s, 25°C):	1,000-4,000
Specific Gravity (25°C):	0.98

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

APPLICATIONS

SiSiB® SF2101 can be used as a hydrophilic and slip-modifying additive for textile, nonwoven, leather and coating applications. It is suitable for semi-durable hydrophilic finishing of nonwoven substrates, especially polyolefin-based materials, and may also be used to stabilize PU foam coatings and improve coating uniformity.

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In waterborne and solvent-based paints, inks and coatings, it provides improved slip, mar resistance and anti-blocking performance. It can also enhance leveling, gloss and substrate wetting, while helping reduce orange peel, pinholes, cissing and fish eyes caused by poor wetting of low surface energy or contaminated substrates.

USAGE GUIDELINES

Textile, Nonwoven and Leather

SiSiB® SF2101 may be diluted with water before use. Water is recommended to be added gradually under continuous stirring to ensure uniform mixing.

It can be applied by padding, exhaustion or spray processes. Typical addition levels should be optimized according to substrate type, process conditions and the desired hydrophilic performance and hand feel.

Paints, Inks and Coatings

SiSiB® SF2101 can be added directly or pre-diluted with water, alcohol or suitable solvents for easier incorporation at low dosage levels.

For coatings and ink formulations, typical use levels are between 0.1–1.0% based on total formulation. Compatibility and optimum dosage should be evaluated under actual formulation conditions.

PACKING

SiSiB® SF2101 is supplied in 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

When stored in the original unopened container under recommended conditions, SiSiB® SF2101 has a shelf life of 24 months from the date of manufacture.

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Storage below 10°C may cause the product to become hazy or wax-like. The product will return to its original liquid state upon warming.

Avoid prolonged exposure to excessive heat or freezing conditions. Containers should be tightly sealed after opening.

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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