



DongGuan SailAdditive

Product technical documentation (TDS)

S-5131 Silicone Leveling Agent

Structure or Component: Polyether-modified polydimethylsiloxane copolymer

Features and Applications: Silicone surface additive, this multifunctional surface additive is engineered to optimize coating performance by significantly reducing surface tension, thereby ensuring superior substrate wettability and the prevention of Bénard cells (vortices). It acts as a high-performance flow and leveling aid that dramatically enhances Distinctness of Image (DOI) and surface gloss without the risk of haze, blue tint, or reduced light transmittance. Beyond aesthetics, it builds a durable surface layer that improves slipperiness, scratch resistance, and anti-blocking properties. With its excellent compatibility, this additive does not migrate or float, making it a "haze-free" solution for both transparent and pigmented systems. It is fully compatible with solvent-based, solvent-free, and waterborne coatings, and its specialized formulation ensures that even multiple recoatings maintain perfect clarity and inter-coat adhesion without any turbidity.

Technical data

Exterior:	Light yellow to amber transparent liquid
Viscosity (25°C , mm ² /s)	300-800
Density (25°C)	1.440-1.450
Non-volatile matter content (120°C/2h , %)	100

Application and addition amount:

Applications:

Vacuum plating paint – varnish

Coatings: Automotive, wood, furniture, plastic, industrial, and decorative coatings.

Digital Media: High-performance inkjet inks (UV, solvent, and water-based).

Usage & Dosage:

Recommended Dosage: * Standard: 0.05% – 0.3% of the total formula, UV & Water-based: 0.3% – 1.0% of the total formula.

Incorporation: Add during the paint mixing stage to ensure optimal distribution

Package: 25L/Barrel or 200L plastic/steel Barrel.

Store: Store in airtight container for 24 months, Store in a cool, dry place.

Transportation: transport as non-hazardous chemicals.

Special Note: Special Note:

The technical parameters provided in this document are typical values for reference only and are not intended as product acceptance standards. Changes may be made without notice. Due to differences in usage conditions, we cannot guarantee the correctness and applicability of the product for certain uses and purposes, and do not assume any liability for any direct, indirect, or accidental losses arising therefrom. Users should conduct relevant tests or consult our technical staff before using the product