



DongGuan SailAdditive

Product technical documentation (TDS)

S-378 Silicone Leveling Agent

Structure or Component: Polyether-modified polydimethylsiloxane copolymer

Features and Applications: Similar to BYK-378, S-378 is a high-performance, solvent-free silicone surface additive designed to significantly reduce surface tension and enhance both scratch resistance and surface slipperiness. It is engineered to provide an excellent hand feel while notably improving paint atomization and spraying fluidity. Beyond wetting, S-378 offers superior anti-shrinkage properties and effectively prevents the "mirror frame" effect. Highly compatible across aqueous, solvent-based, and solvent-free systems, it ensures a defect-free finish without oil spots. Furthermore, it promotes the directional arrangement of matting agents and delivers exceptional slip and durability in high-gloss systems

Technical data

Exterior:	Light yellow to amber transparent liquid
Viscosity (25°C , mm ² /s)	300-800
Density (25°C)	1.443-1.454
Non-volatile matter content (120°C/2, %)	>97

Application and addition amount:

Applications:

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% – 0.5% 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