



DongGuan SailAdditive

Product technical documentation (TDS)

S-333 Silicone Leveling Agent

Structure or Component: Polyether-modified polydimethylsiloxane copolymer

Features and Applications: Similar to BYK-333, it is a representative silicone surface additive known for providing excellent slip, wear resistance, and leveling properties.

S-333 stands out as a highly compatible additive suitable for UV-curable, solvent-based, and aqueous systems. Its primary technical advantage lies in its ability to significantly reduce the coefficient of friction, thereby enhancing surface smoothness, scratch resistance, and anti-blocking properties. Beyond its protective qualities, the product ensures rapid leveling and improved gloss without negatively impacting recoatability, making it an ideal solution for both pigmented systems and matte finishes.

Technical data

Exterior:	Light yellow to amber transparent liquid
Viscosity (25°C , mm ² /s)	500-1000
Density (25°C)	1.440-1.450
Non-volatile matter content (120°C/2, %)	>97

Application and addition amount:

Applications:

Printing Inks: Screen, gravure, and flexo inks; overprint varnishes and matte inks.

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