



DongGuan SailAdditive

Product technical documentation (TDS)

S-323 Silicone Leveling Agent

Structure or Component: Polyether-modified polydimethylsiloxane copolymer

Features and Applications: S-323 is a high-performance solvent-based leveling agent designed to optimize surface aesthetics and film consistency, serving as a reliable alternative to BYK-323. It functions by slightly reducing surface tension to stabilize the flow of curtain coatings while providing a unique deaeration effect that prevents foam stabilization, depending on the system's polarity. This additive is particularly effective in matte systems, where it ensures strong matting agent orientation, and in metallic coatings, where it facilitates the precise, uniform alignment of aluminum pigments for a consistent finish. With exceptional thermal stability up to 250°C, S-323 is an ideal solution for high-temperature applications, including furniture coatings and raw wood paints, ensuring a defect-free surface even under demanding processing conditions.

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:

Curtain Coating, Coil Coatings, Heavy-duty industrial paints,

Wood and furniture industry, automotive paints and rail transit coatings, container coatings,

Especially in the matt finish system, plastic coatings, and baking-type metallic paints

Usage & Dosage:

Recommended Dosage: * Standard: 0.05% – 0.3% 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