BYK-306

Silicone-containing surface additive for ambient curing plastic systems and solvent-borne coating systems with a strong reduction of surface tension. Excellent substrate wetting, prevents cratering and increases surface slip.

Product Data

Composition
Solution of a polyether-modified polydimethylsiloxane

Typical Properties
The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (68 °F):	7.74 lbs/US gal
Non-volatile matter (30 min., 302 °F):	12.5 %
Solvents:	Xylene/Monophenyl glycol 7/2
Flash point:	77 °F

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation
Separation or turbidity may occur at temperatures below 5 °C (41 °F). Warm to 20 °C (68 °F) and mix well.

Applications

Ambient Curing Plastic Systems

Special Features and Benefits
BYK-306, a highly effective silicone additive, provides a strong reduction of surface tension. It thereby improves the wetting of critical substrates. In pigmented systems it can prevent the formation of Bénard cells and improve leveling.

Recommended Use
BYK-306 is recommended for polyurethane and epoxy systems.

Recommended Levels
0.1-0.5 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions
The additive can be incorporated during any stage of the production process, including post-addition. It has proven successful to add the additive at the end of the process to avoid any foam stabilization.

Special Note
Unlike silicone oils, this additive is very user friendly. Nevertheless, before use it should be determined in series testing, whether surface defects occur in certain systems.

Coatings Industry

Special Features and Benefits
The additive provides a strong reduction of the surface tension of the coating systems and is a highly effective silicone additive for wetting critical substrates. BYK-306 improves the acceptance of dust and spray mist and increases surface slip. It reduces air draft sensitivity in wood and furniture coatings and promotes the orientation of matting agents.

Recommended Use
The additive can be used in all solvent-borne systems.

Recommended Levels
0.1-0.5 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions
The additive can be incorporated during any stage of the production process, including post-addition. Dilution before incorporation can make it easier to dose.

Special Note
Unlike silicone oils, this additive is very user friendly. Nevertheless, before use it should be determined in a series of tests whether foam is stabilized in certain systems. Similarly the recoatability and cratering should be checked.

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