BYK-3761

Silicone-containing surface additive for thermosets and solvent-borne coating systems with a strong reduction in the surface tension. Excellent substrate wetting, prevents cratering and increases surface slip.

Product Data

Composition
Solution of a polyether-modified polydimethylsiloxane

SVHC label-free (EU SDS)

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

Density (20 °C):	0.93 g/ml
Non-volatile matter (30 min., 150 °C):	12.5 %
Solvents:	Xylene/monophenyl glycol 7/2
Flash point:	28 °C

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. Warm to 20 °C and mix well.

Special Note
BYK-3761 is a low-cycle version of BYK-306. The cyclic siloxane content D4 / D5 / D6 is in each case less than 0.1 %, therefore the SVHC label is not required in the safety data sheet.

Applications

Thermosets

Special Features and Benefits
BYK-3761, a highly effective silicone additive, provides a strong reduction in the 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-3761 is recommended for polyurethane and epoxy systems.

Recommended Levels
0.1-0.5 % additive (as supplied) based on the 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 so-called silicone oils, this additive is very user-friendly. However, before use, one should determine in a test series whether surface defects occur in certain systems.

Coatings Industry

Special Features and Benefits
The additive provides a strong reduction in the surface tension of the coating systems and is a highly effective silicone additive for wetting critical substrates. BYK-3761 improves the acceptance of dust and spray mist and increases surface slip. It reduces sensitivity to air drafts in wood and furniture coatings and promotes the orientation of matting agents.

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

Recommended Levels
0.1-0.5 % additive (as supplied) based on the 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 so-called silicone oils, this additive is very user-friendly. However, before use, one should determine in a test series whether the foam is stabilized in certain systems and check the recoatability and crater development.

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