BYK-3760

Silicone-containing surface additive for solvent-borne, aqueous and UV coating systems as well as printing inks. Strong reduction of the surface tension and increased surface slip with minor foam stabilization.

Product Data

Composition
Polyether-modified polydimethylsiloxane

Solvent-free

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

Density (20 °C):	1.02 g/ml
Non-volatile matter (10 min., 150 °C):	> 99 %
Flash point:	approx. 102 °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.

Applications

Coatings Industry

Special Features and Benefits
The additive provides a strong reduction in the surface tension of coating systems. It therefore especially improves substrate wetting and prevents cratering. BYK-3760 greatly increases surface slip and the coating benefits from a higher scratch resistance. The product stabilizes foam much less than other highly active additives that contain silicone. BYK-3760 is also effective at a lower dosage.

Recommended Use

General industrial coatings	■
Wood and furniture coatings	■
Can coatings	■
Architectural coatings	■
Protective coatings	■

■ especially recommended □ recommended

Recommended Levels
0.02-0.5 % additive (as supplied) based upon 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
Dilution before processing can make it easier to dose. The additive is soluble in conventional polar and medium-polarity solvents, can be diluted with water but is not water-soluble. The additive can be added at any stage of the production process, including post-addition. However, it should not be added during pigment dispersion.

Special Note
BYK-3760 is very user-friendly and usually displays a very low tendency to stabilize foam. Nevertheless, whether foam is stabilized in certain systems should be investigated in a series of tests before use. Similarly, the recoatability and cratering should be checked.

Printing Inks Industry

Special Features and Benefits
The additive provides a strong reduction in the surface tension of printing inks. It therefore especially improves substrate wetting and prevents cratering. BYK-3760 greatly increases surface slip and the coating benefits from a higher scratch resistance. The product stabilizes foam much less than other highly active additives that contain silicone. BYK-3760 is also effective at a lower dosage.

Recommended Use
The additive is particularly recommended for all solvent-borne, aqueous, and UV printing inks.

Recommended Levels
0.02-0.5 % additive (as supplied) based upon 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
Dilution before processing can make it easier to dose. The additive is soluble in conventional polar and medium-polarity solvents, can be diluted with water but is not water-soluble. The additive can be incorporated during any stage of the production process, including post-addition.

Special Note
BYK-3760 is very user-friendly and usually displays a very low tendency to stabilize foam. Nevertheless, whether foam is stabilized in certain systems should be investigated in a series of tests before use. Similarly, the recoatability and cratering should be checked.

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