

# 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

## 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.



Additive Guide



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