BYK-378

Solvent-free silicone surface additive for aqueous, solvent-borne, and solvent-free coatings and adhesives to increase surface slip and to greatly reduce surface tension. Minor foam stabilization and low dosage.

Product Data

Composition
Polyether-modified polydimethylsiloxane

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
Refractive index (20 °C):	1.440

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 greatly increases surface slip and thereby also improves the scratch resistance. It causes a moderate to high reduction in surface tension and thereby excellent substrate wetting and a good anti-cratering effect. Fat edges (picture framing) are avoided. In matted systems it ensures a good orientation of the matting agent.

BYK-378 displays a high effectiveness at low dosage and only stabilizes foam very slightly. It is widely compatible with aqueous, solvent-borne, and solvent-free systems, can be overcoated easily and does not tend to effloresce.

Recommended Use

Architectural coatings	☐
Automotive coatings	■
Can coatings	☐
Industrial coatings	■
Leather coatings	■
Wood and furniture coatings	■

■ especially recommended ☐ recommended

Recommended Levels
0.01-0.3 % additive (as supplied) based on the total formulation, in exceptional cases up to 0.5%.

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.

Adhesives

Special Features and Benefits
The additive causes a moderate to high reduction in surface tension and thereby excellent substrate wetting. It displays a high effectiveness at low dosage and only stabilizes foam very slightly. BYK-378 displays no negative impact on adhesion and does not migrate.

Recommended Use
BYK-378 is used in all common reaction adhesives, for example that are based on polyurethane, epoxy or acrylate.

Recommended Levels
0.01-0.3% additive (as supplied) based on the total formulation, in exceptional cases up to 0.5%.

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.

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