

BYK-378

Solvent-free silicone surface additive for water-borne, solvent-borne, and solvent-free systems that increases surface slip and significantly reduces the surface tension at low doses. Low foam stabilization.

Product Data

Composition

Polyether-modified dimethylpolysiloxane

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 significantly increases surface slip, thus improving scratch resistance in the process. It leads to a moderate to severe reduction in surface tension, which in turn results in excellent substrate wetting and good anti-crater effect. This prevents the so called "picture framing" effect. In matted systems, it aids orientation of the matting agents.

BYK-378 is highly effective at low doses and displays low foam stabilization. It features a broad compatibility in aqueous, solvent-borne, and solvent-free systems, can easily be recoated, and does not tend to bloom.

Recommended use

Architectural coatings	<input type="checkbox"/>
Automotive coatings	<input checked="" type="checkbox"/>
Can coatings	<input type="checkbox"/>
Industrial coatings	<input checked="" type="checkbox"/>
Leather coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input checked="" type="checkbox"/>

especially recommended recommended

Recommended Levels

0.01-0.3 % additive (as supplied) based upon total formulation. In exceptional cases up to 0.5 %. The levels recommended above are purely for orientation purposes. 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 leads to a moderate to severe reduction in surface tension, which in turn results in excellent substrate wetting. It is highly effective at low doses and displays low foam stabilization. BYK-378 does not negatively impact adhesion and does not migrate.

Recommended use

BYK-378 can be used in all common reactive adhesives, for example on polyurethane, epoxy, or acrylate basis.

Recommended Levels

0.01-0.3 % additive (as supplied) based upon total formulation. In exceptional cases up to 0.5 %. The levels recommended above are purely for orientation purposes. 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.