

Data Sheet Issue 09/2016

# **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 (68 °F): 8.51 lbs/US gal

Refractive index (68 °F): 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

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#### **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.







**BYK USA Inc.**524 South Cherry Street
P.O. Box 5670
Wallingford, CT 06492
USA
Tel 203 265-2086
Fax 203 284-9158

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