

Data Sheet Issue 12/2012

# **BYK-320**

Silicone-containing surface additive for solvent-borne coating systems with a slight reduction of surface tension and slight increase of surface slip. Good leveling with defoaming properties; also recommended for ambient curing plastic systems.

# **Product Data**

#### **Composition** Solution of a polyether-modified polymethylalkylsiloxane

# **Typical Properties**

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

Density (20 °C):	0.86 g/ml
Non-volatile matter (60 min., 105 °C):	52 %
Solvents:	White spirit/Methoxypropylacetate 9/1
Flash point:	38 °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 slight reduction of the surface tension of coating systems and is a leveling additive with defoaming properties, particularly for non-polar to medium polar systems. Its defoaming effect intensifies with increasing polarity. BYK-320 prevents problems with ghosting and telegraphing. To prevent these defects, the additive must be used in the coating layer that is to be recoated.

# **Recommended Use**

The additive is particularly recommended for solvent-borne coatings; however, it can also be used in aqueous systems.

# **Recommended Levels**

0.05-0.6 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

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#### **Incorporation and Processing Instructions**

The additive can be incorporated during any stage of the production process, including post-addition.

#### **Special Note**

Unlike so-called silicone oils, this additive is very user friendly. Nevertheless, before use it should be determined in a series of tests whether foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.

# **Ambient-curing Plastic Systems**

#### **Special Features and Benefits**

The additive provides a slight reduction of the surface tension and is a leveling additive with defoaming properties, particularly for non-polar to medium-polar systems. Its defoaming effect intensifies with increasing polarity.

#### **Recommended Use**

The additive is recommended for all ambient curing resin systems such as unsaturated polyester resins and epoxy resins.

#### **Recommended Levels**

0.05-0.6 % additive (as supplied) based upon 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**

The additive can be incorporated during any stage of the production process, including post-addition.





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