

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 (68 °F):	7.18 lbs/US gal
Non-volatile matter (60 min., 221 °F):	52 %
Solvents:	White spirit/Methoxypropylacetate 9/1
Flash point:	100 °F

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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