

BYK-300

Silicone surface additive for solvent-borne coating systems with a medium reduction of surface tension and a medium increase of surface slip.

Product Data

Composition

Solution of a polyether-modified polydimethylsiloxane

Typical Properties

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

Density (20 °C):	0.94 g/ml
Non-volatile matter (60 min., 105 °C):	52 %
Solvents:	Xylene/Isobutanol 4/1
Flash point:	23 °C

Applications

Coatings Industry

Special Features and Benefits

The additive provides a medium reduction of surface tension in the coating systems. It increases slip and improves leveling and gloss. Silicone additives prevent the formation of Bénard cells. BYK-300 also improves substrate wetting and anti-blocking properties.

Recommended Use

BYK-300 is broadly compatible and suitable for all solvent-borne systems.

Recommended Levels

0.1-0.3 % 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. Thinning before incorporation may make dosing easier.

Special Note

Unlike so-called silicone oils, this additive is very user-friendly. However, before use, one should determine in test series whether foam is stabilized in certain systems and check the recoatability and crater development.

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BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

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