

# BYK-331

Silicone surface additive for solvent-borne, solvent-free, and aqueous coatings and printing inks with a medium reduction of surface tension and a medium increase of slip.

## 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 (20 °C): 1.04 g/ml

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

## Applications

### Coatings and Printing Inks

#### Special Features and Benefits

The additive reduces the surface tension in the systems to a medium level. It increases slip and improves leveling and gloss. Silicone additives prevent the formation of Bénard cells. BYK-331 also improves substrate wetting and provides anti-blocking properties.

#### Recommended Use

BYK-331 can be used in all aqueous, solvent-borne, and solvent-free systems and is especially recommended for automotive coatings, architectural coatings, wood coatings as well as printing inks and overprint varnishes. In two-pack polyurethane systems, it can also be added to the isocyanate hardener.

#### Recommended Levels

0.025-0.2 % 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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