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 (68 °F): 8.64 lbs/US gal

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 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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