

BYK-302

Silicone surface additive for solvent-free, solvent-borne, and aqueous coating systems and printing inks with medium reduction of surface tension and 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 for further information.

Applications

Coatings and Printing Inks

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-302 also improves substrate wetting and anti-blocking properties.

Recommended Use

BYK-302 is used when solvent-free additives are required or when special solvents for preparation on site are desired. It can be used in all aqueous, solvent-borne, and solvent-free systems.

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.