

BYK-3753

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

Product Data

Composition

Polyether-modified polydimethylsiloxane

SVHC label-free
(EU SDS)

Typical Properties

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

Density (20 °C): 1.03 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.

Special Note

BYK-3753 is a low-cycle version of BYK-331. The cyclic siloxane content D4 / D5 / D6 is in each case less than 0.1 %, therefore the SVHC label is not required in the safety data sheet.

Applications

Coatings and Printing Inks

Special Features and Benefits

The additive provides a medium reduction in the surface tension of coating systems. It increases surface slip and improves leveling and gloss. Silicone additives prevent the formation of Bénard cells. BYK-3753 also optimizes substrate wetting and provides anti-blocking properties.

Recommended Use

BYK-3753 can be used in all aqueous, solvent-borne and solvent-free systems, and is particularly recommended for automotive coatings, architectural coatings, wood coatings, 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 on the 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. Dilution before incorporation can make it easier to dose.

Special Note

Unlike so-called silicone oils, this additive is very user-friendly. However, before use, one should determine in a test series whether the foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.



Additive Guide



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