

BYK-3755

Silicone-containing surface additive with extended food contact compliance for solvent-borne coating systems with a medium reduction in surface tension and a medium increase in surface slip.

Product Data

Composition

Solution of a 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):	0.93 g/ml
Non-volatile matter (10 min., 150 °C):	22 %
Solvents:	Xylene/methoxypropyl acetate 1.6/1
Flash point:	23 °C

Special Note

BYK-3755 is the version of BYK-300/BYK-3750 with extended food contact compliance. The cyclic siloxane content D4/D5/D6 of BYK-3755 is less than 0.1 % in each case, therefore the SVHC label is not required in the safety data sheet.

Applications

Coatings Industry

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-3755 also optimizes substrate wetting and creates anti-blocking properties.

Recommended Use

BYK-3755 is broadly compatible and suitable for all solvent-borne systems.

Recommended Levels

0.1-0.3 % 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, a series of laboratory tests should be conducted to determine whether the foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.



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This issue replaces all previous versions.