BYK-315 N

Silicone-containing surface additive for solvent-borne coating systems, in particular automotive coatings. Slight reduction in the surface tension and slight increase in surface slip. No blushing after water immersion test.

Product Data

Composition
Solution of a polyester-modified polymethylalkylsiloxane

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
Non-volatile matter (30 min., 150 °C):	25 %
Solvents:	Methoxypropyl acetate/phenoxyethanol 1/1
Flash point:	51 °C

Storage and Transportation
Separation or turbidity may occur when stored or transported below -5 °C. Heat to 20 °C and stir.

Applications

Coatings Industry

Special Features and Benefits
The additive causes just a slight lowering of the surface tension of coating systems. It therefore improves the flow and leveling and in some formulations also has a defoaming effect. The formation of Bénard cells is also prevented and gloss is increased. The additive displays no blushing in clear coats after water immersion tests.

Recommended Use

Automotive coatings	■
Architectural coatings	□
Protective coating systems	□
General industrial coatings	■

■ especially recommended □ recommended

Recommended Levels

0.05-0.6 % 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.

Special Note

Unlike so-called silicone oils, this additive is very user-friendly. Nevertheless, before use it should be determined in a series of tests whether foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.

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