

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.

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|--|--|
| 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 | <input checked="" type="checkbox"/> |
| Architectural coatings | <input type="checkbox"/> |
| Protective coating systems | <input type="checkbox"/> |
| General industrial coatings | <input checked="" type="checkbox"/> |

☒ 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.



Additive Guide



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