BYK-323

Silicone-containing surface additive for solvent-borne coating systems with a slight reduction of surface tension and slight increase of surface slip. Thermostable up to 250 °C (482 °F). Good leveling with defoaming properties.

Product Data

Composition
Aralkyl-modified polymethylalkylsiloxane

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

Density (68 °F): 8.26 lbs/US gal

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 Industry

Special Features and Benefits
The additive provides a slight reduction of the surface tension of coating systems. BYK-323 is a silicone leveling additive which has a defoaming effect/does not stabilize or only slightly stabilizes the foam depending on the polarity of the coating system. BYK-323 is thermostable up to 250 °C (482 °F) and does not negatively impact the intercoat adhesion. In matt coatings it is used to orientate the matting agent and in high solid systems that are difficult to matt (polyurethane/acid-curing/unsaturated polyester) its use gives optimum matting agent orientation without shining up. In flow coatings, BYK 323 stabilizes the flow curtain, and in metallic coatings it ensures consistent orientation of the aluminum pigments.

Recommended Use
The additive is particularly recommended for all solvent-borne coatings.

Recommended Levels
0.01-0.4 % 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 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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