BYK-345

Silicone surfactant for aqueous coatings, printing inks and overprint varnishes with strong reduction in surface tension resulting in significantly improved substrate wetting. No increase in surface slip. Solvent-free version of BYK-346.

Product Data

Composition
Polyether-modified siloxane

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

Density (68 °F): 8.68 lbs/US gal
Active substance: 100 %

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
Solvent-free version of BYK-346. The additive has long-term stability at pH 4 to 10. It requires a small amount of co-solvent in the formulation (approx. 5 % of the total solvent content) in order to avoid turbidity. The effectivity of the silicone surfactant is reduced in systems with higher co-solvent amounts. For these types of formulations we recommend the use of polysiloxanes such as BYK-333.

Applications

Coatings and Printing Inks

Special Features and Benefits
The additive provides a large decrease in surface tension in aqueous systems and therefore improves substrate wetting and leveling in particular. Foam stabilization does not occur or only very minimally and recoatability is not affected. The additive does not increase surface slip. If higher surface slip is desired, we recommend combining it with a polysiloxane such as BYK-333.

Recommended Use
The additive is recommended for all aqueous coatings, printing inks and overprint varnishes which contain a small proportion of organic co-solvent.

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Recommended Levels

0.05-0.5 % additive (as supplied) based upon total formulation.

The above recommended levels can be used for orientation. Optimal dosage levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

The additive is preferably added to the finished formulation. It can, however, be added at any stage during production.

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