BYK-349

Silicone surfactant for aqueous coatings, adhesives and maintenance products with a considerable reduction in the surface tension and therefore good substrate wetting. Does not increase the surface slip. Suitable for systems that do not contain co-solvents. All-purpose.

Product Data

Composition
Polyether-modified siloxane

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

Active substance: 100 %
Density (20 °C): 1.04 g/ml

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
The additive has long-term stability in the pH range 4-10. It is also suitable for systems that do not contain organic co-solvents. If the system contains increased quantities of co-solvents, the silicone surfactant will not be as effective. In such formulations, we recommend the use of a polysiloxane, e.g. BYK-333.

Applications

Coatings Industry

Special Features and Benefits
The additive produces a significant decrease in the surface tension in aqueous coatings and therefore particularly improves substrate wetting and leveling. It only marginally, if at all, stabilizes foam and the recoatability is not impaired. The additive does not increase the surface slip. If a greater surface slip is required, we recommend that it is combined with a polysiloxane such as BYK-333.

Recommended Use

Automotive coatings	■
Architectural coatings	■
Wood and furniture coatings	■
Industrial coatings	■
Can coatings	■
Coil coatings	■
Protective systems	■
Leather finishes	□

■ Particularly recommended □ Recommended

The additive is especially recommended for all aqueous coatings that do not contain co-solvents, particularly those based on styrene-acrylic, pure acrylate, acrylate/polyurethane combinations, polyurethanes, and also for baking systems.

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
It is preferable to add the additive to the finished coating. However, it can be used at any stage during the coating manufacture.

Adhesives & Sealants

Special Features and Benefits
BYK-349 is a highly effective silicone surfactant. The additive causes a considerable reduction in the surface tension in aqueous adhesive systems. It thereby improves the wetting of critical substrates.

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
It is preferable to add the additive to the finished formulation. However, it can be used at any stage during manufacture.

Care Products and Polishes

Special Features and Benefits
BYK-349 is a highly effective silicone surfactant with a considerable reduction in the surface tension to improve the substrate wetting and leveling in aqueous maintenance products. It only marginally, if at all, stabilizes the foam, does not impair the subsequent layer and does not increase the surface slip.

Recommended Use
The additive is particularly recommended for plasticizer-free floor care products and wax cleaning agents.

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
It is preferable to add the additive to the already completed formulation. However, it can be used at any stage during the coating manufacture.

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