

# BYK-348

Silicone surfactant for aqueous coatings, adhesives, printing inks and overprint varnishes with a considerable reduction in the surface tension and therefore an improvement in the substrate wetting. Does not increase the surface slip. Suitable for systems that do not contain co-solvents.

## 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): 1.06 g/ml

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

### Storage and Transportation

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

### 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 and Printing Inks

#### Special Features and Benefits

The additive produces a significant decrease in the surface tension of aqueous systems 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

The additive is especially recommended for all aqueous coatings, printing inks and overprint varnishes, particularly also for formulations which do not contain co-solvents.

**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.

**Adhesives****Special Features and Benefits**

The additive produces a significant decrease in the surface tension of aqueous adhesives and therefore improves substrate wetting. It only marginally, if at all, stabilizes foam. The additive does not increase the surface slip. It is particularly suitable for adhesive systems that do not contain co-solvents.

**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.