

BYK-3400

Silicone-containing substrate wetting additive for aqueous coatings, adhesives and maintenance products to reduce the surface tension. Good substrate wetting, no increase in the surface slip.

Product Data

Composition

Combination of interface-active substances

Typical Properties

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

Active substance: 79 %

Density (68 °F): 8.97 lbs/US gal

Solvents: Water

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 causes a considerable reduction in the surface tension in aqueous coatings and thus especially 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 Levels

0.5-2 % 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 coating. However, it can be used at any stage during the coating manufacture.

Adhesives & Sealants

Special Features and Benefits

BYK-3400 reduces the surface tension in aqueous adhesive systems. It thereby improves the wetting of critical substrates. It only marginally, if at all, stabilizes foam.

Recommended Levels

0.5-2 % 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 manufacture.

Care Products and Polishes

Special Features and Benefits

BYK-3400 reduces the surface tension and therefore improves 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 self-shine emulsions (matt and gloss), wax cleaning agents and semi-aqueous cleaning agents with a plasticizer content in excess of 5 %.

Recommended Levels

0.05-1 % 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 manufacture. Prior to use in systems containing plasticizers, the additive should be diluted using the volatile plasticizer to 10 % non-volatile matter.