

BYK-348

Silicone surfactant for aqueous coatings, adhesives, printing inks, overprint varnishes and care products with a strong reduction of surface tension and therefore an improvement of 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

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 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.

Care products

Special Features and Benefits

BYK-348 is a highly effective silicone surfactant with a strong reduction of surface tension to improve the substrate wetting and leveling of aqueous care products. If at all, it only marginally stabilizes the foam, has no negative impact on the subsequent layer and does not increase surface slip.

Recommended Use

The additive is particularly recommended for plasticizer-free and wax-containing floor care products.

Recommended Levels

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

The above recommended levels can be used for orientation. Optimal dosages 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.



Additive Guide



BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions – Printed in Germany