

BYK-023

VOC-free silicone-containing defoamer for aqueous dispersion coatings, printing inks, overprint varnishes, and cleaning agents.

Product Data

Composition VOC-free (< 1500 ppm)

Emulsion of foam-destroying polysiloxanes, hydrophobic solids and emulsifiers

Typical Properties

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

Density (20 °C): 1.00 g/ml Non-volatile matter (60 min., 105 °C): 18.5 % Carrier: 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.

Storage and Transportation

Storage and transportation between 0 °C and 40 °C. Temperature-sensitive emulsion. If the temperature has exceeded or fallen below the recommended range, the product has to be tested before use and, if necessary, be re-emulsified at room temperature.

Applications

Coatings Industry

Special Features and Benefits

BYK-023 is recommended for emulsion paints with a PVC of 30-50 and which are manufactured on a styrene acrylate, acrylate or terpolymer basis. The additive is also suitable for use in hybrid systems.

Recommended Levels

0.05-0.8 % additive (as supplied) based on total formulation.

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

Incorporation and Processing Instructions

Due to its high incompatibility, the defoamer must be incorporated at high shear forces to ensure a good distribution. Otherwise defects may occur in the system.

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Printing Inks and Overprint Varnishes

Special Features and Benefits

BYK-023 is recommended for defoaming printing inks and overprint varnishes based on styrene acrylate or acrylate. The additive is also suitable for use in hybrid systems.

Recommended Levels

0.2-1 % additive (as supplied) based on total formulation.

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

Incorporation and Processing Instructions

Due to its high incompatibility, the defoamer must be incorporated at high shear forces to ensure a good distribution. Otherwise defects may occur in the system.

Household, Industrial, and Commercial Cleaning Agents

Special Features and Benefits

BYK-023 is a silicone-containing defoamer for aqueous care products and cleaning agents, which can demonstrate its considerable defoaming effect already during production. This effect is maintained after application.

Recommended Levels

0.1-0.5 % additive (as supplied) based on the total formulation.

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

Incorporation and Processing Instructions

The additive is preferably added at the start of formulation, however it is possible to use it at any stage of manufacture.







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

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