

BYK-1650

VOC-free silicone-containing defoamer for aqueous coating systems, printing inks, overprint varnishes and cleaning agents. Compatible defoamer that can be easily incorporated.

Product Data

Composition

Emulsion of foam-destroying polysiloxanes and hydrophobic solids

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 (10 min., 150 °C): 27.5 %
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-1650 is recommended for defoaming emulsion paints with a pigment volume concentration of 35-70. The defoamer has an outstanding long-term effect and has no negative impact on the color paste acceptance.

Recommended Levels

0.1-0.5 % additive (as supplied) based on total formulation. In exceptional cases up to 0.8 %.

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 can be added at any time during production. The amount of defoamer used is often divided (by adding 2/3 into the millbase and 1/3 into the let-down or finished product).

Printing Inks and Overprint Varnishes

Special Features and Benefits

BYK-1650 is recommended for defoaming aqueous printing inks and overprint varnishes based on styrene-acrylate and acrylate.

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

The additive can be added at any time during production. The amount of defoamer used is often divided (by adding 2/3 into the millbase and 1/3 into the let-down or finished product). As a result of its high activity, the defoamer must be incorporated at moderate 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-1650 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.



Additive Guide



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