BYK-1650

VOC-free silicone-containing defoamer for aqueous coating systems, printing inks, and overprint varnishes. 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 (68 °F):	8.35 lbs/US gal
Non-volatile matter (10 min., 302 °F):	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 (32 °F) and 40 °C (104 °F). 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-emulsifield 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 upon 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 upon 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.

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