

BYK-021

VOC-free silicone-containing defoamer for aqueous high gloss emulsion systems, dispersion adhesives, printing inks and overprint varnishes. Particularly suitable for high-gloss and satin-gloss systems and for airless application.

Product Data

Composition

Mixture of foam-destroying polysiloxanes and hydrophobic solids in polyglycol

VOC-free (< 1500 ppm)

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

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

Separation may occur. Mix well before use. To be stored and transported at a temperature below 40 °C.

Applications

Printing Inks and Overprint Varnishes

Special Features and Benefits

BYK-021 is recommended for defoaming printing inks and overprint varnishes based on styrene acrylate, acrylate or acrylate/polyurethane.

Recommended Levels

0.05-0.8 % 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

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.

Coatings Industry

Special Features and Benefits

BYK-021 is particularly suitable for pigmented high gloss emulsion systems based on styrene acrylate, acrylate or acrylate/polyurethane with a pigment volume concentration of 18-25. The additive defoams particularly high-gloss and satin-gloss systems, even in airless application.

Recommended Levels

0.1-0.8 % 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

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.

Adhesives

Special Features and Benefits

BYK-021 is recommended for defoaming aqueous acrylate-based adhesives.

Recommended Levels

0.05-0.5 % 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

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.