# 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 (68 °F): 8.30 lbs/US gal

**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 (104 °F).

## 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.

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## 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.

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