

# BYK-023

VOC-free silicone-containing defoamer for aqueous emulsion paints, printing inks and overprint varnishes.

## Product Data

### Composition

Emulsion of foam-destroying polysiloxanes, hydrophobic solids and emulsifiers

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  
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](http://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 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.

## 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 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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This information is given to the best of our knowledge. Because of the multitude of formulations, production, and application conditions, all the above-mentioned statements have to be adjusted to the circumstances of the processor. No liabilities, including those for patent rights, can be derived from this fact for individual cases.

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