

## BYK-044

Silicone-containing defoamer for aqueous printing inks, overprint varnishes, cleaning agents and architectural coatings.

### Product data

#### Composition

Aqueous emulsion of polyether-modified polysiloxanes with hydrophobic particles

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):	1.03 g/cm <sup>3</sup>
Non-volatile matter (10 min, 150 °C):	57 %
Delivery form:	liquid

#### Storage and transportation

Product shelf life in unopened original packaging: 24 months

To be stored and transported between 0 °C and 40 °C. Temperature sensitive.

#### Special note

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

#### Printing inks

##### Special features and benefits

BYK-044 is recommended as a millbase defoamer, to defoam aqueous pigment concentrates and for overprint varnishes.

##### Recommended levels

0.05-0.5 % additive (as supplied) based on the total formulation.

0.2-2 % additive (as supplied) in the pigment concentrates.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

##### 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.

## Home care and I&I

### Special features and benefits

BYK-044 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

0.1-0.3 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

### Incorporation and processing instructions

The additive is preferably added at the start of formulation, however it can also be used at any stage of manufacture. If possible, due to its high incompatibility, ensure sufficiently high shear forces are applied during incorporation.

## Coatings industry

### Special features and benefits

BYK-044 is a defoamer for aqueous systems. The additive is particularly recommended for the production and application of emulsion paints and plasters in the PVC range of 30-85, as well as for aqueous pigment concentrates.

BYK-044 is VOC-free and can replace mineral oil defoamers.

### Recommended levels

0.1-1 % additive in delivery form to the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

### Incorporation and processing instructions

BYK-044 can be added at any time during production. Sufficient shear forces must be ensured.



Your local  
contact

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