

# BYK-012

Polymer-based, VOC- and silicone-free defoamer for aqueous coatings, printing inks and adhesives. Especially recommended for high-quality architectural coatings. Optimal effect at the lowest dosage.

## Product Data

### Composition

Mixture of foam-destroying polymers and hydrophobic solids

VOC-free (< 1500 ppm)

Does not contain  
alkylphenol ethoxylates

### Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C): 1.01 g/ml

### 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

Separation possible. Mix well before use. The additive is not frost sensitive, although storage at 10-25 °C is recommended for optimum handling.

## Applications

### Coatings Industry

#### Special Features and Benefits

BYK-012 is especially recommended as a defoamer in the preparation and application of emulsion paints and plasters within a PVC range of 30-85. The additive is free of silicones and mineral oil, and is especially suitable for VOC-free systems. It exhibits an optimal effect at the lowest dosage, is stable to acids and alkalis, and can be used in the pH range 3-12. BYK-012 can lead to turbidity and seeding in clear coatings.

#### Recommended Use

Architectural Coatings	<input checked="" type="checkbox"/>
Wood and Furniture Coatings	<input type="checkbox"/>
Leather Finishes	<input type="checkbox"/>
Protective Coating Systems	<input type="checkbox"/>

especially recommended    recommended

## BYK-012

Data Sheet  
Issue 02/2014

### 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

The additive can be added at any time during production. Sufficiently high shear forces must be applied.

### Printing Inks and Overprint Varnishes

#### Special Features and Benefits

BYK-012 is especially recommended as a defoamer for aqueous printing inks. The additive is free of silicones and mineral oil, and exhibits an optimal effect at the lowest dosage. BYK-012 can lead to turbidity and seeding in overprint varnishes.

#### Recommended Levels

0.1-0.5 % 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

The additive can be added at any time during production. Sufficiently high shear forces must be applied.

### Adhesives & Sealants

#### Special Features and Benefits

BYK-012 is a highly effective defoamer for all current dispersion adhesives, and inhibits foaming during both production and application. It is a particularly good defoamer for polyacrylate-based dispersion adhesives. The product is free of silicones and mineral oil, and is especially recommended for VOC-free systems. It exhibits an optimal effect at the lowest dosage, is stable to acids and alkalis, and can be used in the pH range 3-12.

#### 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

The additive can be added at any time during production. Sufficiently high shear forces must be applied.



Additive Guide



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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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