

# BYK-1641

VOC- and mineral oil-free defoamer for aqueous systems that is very easy to incorporate and has an excellent price-performance ratio.

## Product data

### Composition

Emulsion of foam-destroying polymers and hydrophobic particles; contains silicone

VOC-free (< 1500 ppm)  
Mineral oil-free

### 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): 30 %  
Solvents: Water

## Applications

### Coatings industry

#### Special features and benefits

BYK-1641 is effective in aqueous systems. The additive is especially recommended for use in the production and application of emulsion paints and plasters within a PVC range of 30–85. BYK-1641 is easy to handle, can also be post-added, and shows very good compatibility. Furthermore, the additive is free of mineral oil and VOCs. To improve spontaneous defoaming in the system, the product contains a tip of silicone.

#### Recommended use

Floor coatings	<input type="checkbox"/>
Architectural coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>
General industrial coatings	<input type="checkbox"/>

especially recommended  recommended

#### Recommended levels

0.1–0.5 % additive (as supplied) based on the total formulation, in exceptional cases up to 0.8 %.

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

#### Incorporation and processing instructions

Sufficiently high shear forces must be applied during incorporation to ensure good distribution of the defoamer and to prevent cratering.

## Adhesives and sealants

### Special features and benefits

BYK-1641 is a highly effective defoamer for all common emulsion adhesives, such as acrylic, polyurethane, and EVA emulsions. It prevents foaming during both production and application. The product is free of mineral oil, and is especially recommended for VOC-free systems. BYK-1641 is easy to handle, can also be post-added, and shows good compatibility.

### Recommended levels

0.1–0.5 % 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 can be added at any time during production. Sufficiently high shear forces must be applied during incorporation to ensure good distribution of the defoamer and to prevent cratering.

## Printing inks

### Special features and benefits

BYK-1641 is particularly suitable for aqueous printing inks and overprint varnishes.

### Recommended levels

0.2–1 % 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

Sufficiently high shear forces must be applied during incorporation.

## Construction chemicals

### Special features and benefits

BYK-1641 is a versatile defoamer for aqueous construction chemical formulations – especially those based on acrylic, polyurethane, and EVA emulsions – and also for superplasticizers based on lignosulfonates or naphthalenesulfonates. The product is free of mineral oil, and is especially recommended for VOC-free systems. BYK-1641 is easy to handle, can also be post-added, and shows good compatibility.

### Recommended levels

0.1–0.5 % 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 can be added at any time during production. Homogenous distribution of the defoamer can be ensured by applying sufficiently high shear forces.

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This issue replaces all previous versions.