

BYK-1740

VOC-free defoamer made of bio-based raw materials for aqueous paint systems, adhesives, and detergents, cleaning and care products with excellent defoaming properties.

Product data

Composition

Mixture of vegetable oils with hydrophobic particles

VOC-free (< 1500 ppm)
Bio-based

Typical properties

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

Density (20 °C): 0.92 g/ml
Non-volatile matter (10 min, 150 °C): 100 %
Bio-based carbon content (ASTM D6866): 100 %

Storage and transportation

Separation may occur. Mix well before use.

Applications

Coatings industry

Special features and benefits

BYK-1740 is a highly effective bio-based defoamer based on vegetable oil and is free from mineral oils and silicones. The additive is odor-free and resistant to yellowing. It also has good storage stability, both as a raw material as well as in the finished formulation. BYK-1740 is suitable for aqueous systems and has no impact on the color paste acceptance. In the architectural coatings sector, it is particularly suitable for emulsion paints with a PVC range of 40–85 and for emulsion plasters.

The additive can also be used as a defoamer in the polymerization process.

Recommended use

Architectural coatings	<input checked="" type="checkbox"/>
General industrial coatings	<input type="checkbox"/>
Can coatings	<input type="checkbox"/>
Marine coatings	<input type="checkbox"/>
Protective coatings	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended levels

0.2–0.5 % additive (as supplied) based on the total formulation, in exceptional cases up to 0.7 %.

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 incorporated in the millbase and the letdown stage. Sufficiently high shear forces must be applied when added in the letdown stage.

Adhesives and sealants**Special features and benefits**

BYK-1740 is a highly effective bio-based defoamer based on vegetable oil and is free from mineral oils and silicones. The additive is odor-free and resistant to yellowing. It also has good storage stability, both as a raw material as well as in the finished formulation.

Recommended use

BYK-1740 is recommended for aqueous emulsion adhesives. The additive can also be used as a defoamer in the polymerization process.

Recommended levels

0.2–0.5 % 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

It is recommended that the additive is incorporated at the start of the production process. Sufficiently high shear forces must be applied for post-addition.

Home Care and I&I**Special features and benefits**

BYK-1740 is a highly effective bio-based defoamer based on vegetable oil and is free from mineral oils and silicones. The additive is odor-free and resistant to yellowing. It also has good storage stability, both as a raw material as well as in the finished formulation. BYK-1740 is suitable for use in aqueous cleaning and care products.

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 is preferably added at the start of the formulation, however it can also be used at any stage of manufacture.

Leather finishes and coated fabrics**Special features and benefits**

BYK-1740 is a highly effective bio-based defoamer based on vegetable oil and is free from mineral oils and silicones. The additive is odor-free and resistant to yellowing. It also has good storage stability, both as a raw material as well as in the finished formulation.

Recommended use

The additive is recommended for aqueous leather and textile coatings, particularly for aqueous PUR resins and acrylic. It has no effect on the color paste acceptance.

Recommended levels

0.2–0.5 % additive (as supplied) based on the total formulation, in exceptional cases up to 0.9 %.

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 incorporated in the millbase and the letdown stage. Sufficiently high shear forces must be applied when added in the letdown stage.



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