

BYK-1745

VOC- and silicone-free defoamer based on polymers and renewable as well as sustainable raw materials for aqueous adhesives and aqueous architectural coatings.

Product data

Composition

Blend of hydrophobic solids and foam-destroying polymers, silicone-free

VOC-free (< 1500 ppm)
Silicone-free

Typical properties

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

Density (20 °C): 0.97 g/ml
Non-volatile matter (10 min., 150 °C): 99.7 %

Storage and transportation

Separation may occur. Mix well before use.

Applications

Adhesives and sealants

Special features and benefits

BYK-1745 is a very effective, sustainable defoamer based on renewable vegetable derivatives that can replace finite raw materials such as mineral oils. The additive complies with most of the regulations regarding products that come into contact with food as part of adhesive applications. It is also silicone-free.

Recommended use

BYK-1745 is particularly recommended for aqueous emulsion adhesives such as the PVAc and VAE emulsions used in paper and packaging adhesives and in wood adhesives. The defoamer is also recommended for dispersion adhesives such as acrylate systems and prevents foam development during the manufacturing and application processes of these systems.

Recommended levels

0.1–0.8 % 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.

Coatings industry

Special features and benefits

BYK-1745 is a very effective, sustainable defoamer based on renewable vegetable derivatives that can replace finite raw materials such as mineral oils. The additive complies with globally applicable ecological standards and is suitable for preparing state-of-the-art environmentally friendly formulations. It is VOC-free (< 1500 ppm) and does not contain any silicone.

Recommended use

BYK-1745 is recommended for aqueous architectural coatings, particularly for emulsion paints with a PVC range of 40 to 85 % and for emulsion plasters. It has no negative impact on the colorant acceptance and demonstrates a balanced compatibility.

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.



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This issue replaces all previous versions.