

BYK-1788

VOC- and silicone-free polymer defoamer for solvent-borne, high-solid, and solvent-free systems. Particularly suitable for 100 % UV systems. Broadly compatible defoamer, particularly recommended for clear coat systems and thermosets.

Product Data

Composition

Combination of surface-active substances

Solvent-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 (68 °F): 7.93 lbs/US gal

Non-volatile matter (10 min., 302 °F): > 98 %

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation

Close containers tightly after use.

Applications

Liquid Coatings

Special Features and Benefits

BYK-1788 is an emission-free polymer defoamer that is especially suitable for 100 % UV systems as well as high-solid and solvent-free systems based on polyurethanes or unsaturated polyesters. The additive is particularly recommended for clear coat systems without having a negative impact on surface properties, gloss or transparency. BYK-1788 combines broad compatibility with an effective defoaming action and can be used both in the millbase and in the letdown product. It contains 100 % solids and is VOC-free which predestines it for use in 100 % UV systems for the wood and furniture coatings industry.

Recommended Use

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

☒ especially recommended ☐ recommended

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Recommended Levels

0.3-0.5 % additive (as supplied) based on the 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

BYK-1788 can be incorporated both in the millbase and the letdown product. If post-added, ensure sufficient shear forces are applied.

Leather Finishes

Special Features and Benefits

BYK-1788 is an emission-free polymer defoamer that is especially suitable for high-solid and solvent-free systems based on polyurethanes.

Recommended Use

Leather coatings	<input type="checkbox"/>
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☒ especially recommended ☐ recommended

Recommended Levels

0.3-0.5 % additive (as supplied) based on the 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

BYK-1788 can be incorporated both in the millbase and the letdown product. If post-added, ensure sufficient shear forces are applied.

Thermosets

Special Features and Benefits

BYK-1788 displays the greatest efficiency when releasing air from practically all epoxy resin systems such as cast resins, infusion or winding systems. The additive also displays excellent air-release properties in acrylates and unsaturated polyester resins, offering the greatest efficiency in styrene-free polyester resins. Using BYK-1788 improves surfaces and reduces the evacuation time of composites. In some resins, air release agents may cause turbidity in the finished part.

Recommended Use

Epoxy resins	<input checked="" type="checkbox"/>
Unsaturated polyester resins	<input checked="" type="checkbox"/>
Acrylates	<input checked="" type="checkbox"/>
Polyurethane resins	<input type="checkbox"/>

☒ especially recommended ☐ recommended

Recommended Levels

0.1-0.75 % additive (as supplied) based on the 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

Stir in the resin before adding other components.

Special Note

In 2-pack epoxy resin systems, BYK-1788 can be added both to the resin component and the amine hardener.

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Additive Guide



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