BYK-1796

Silicone-containing defoamer for solvent-borne, high-solid, and solvent-free applications. Particularly suitable for 100 % 2-component systems. Extremely high defoaming action.

Product data

Composition
Blend of polyether-modified polysiloxanes with hydrophobic particles

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

Density (20 °C):	1.00 g/cm³
Active substance:	100 %
Flash point:	134 °C
Delivery form:	liquid

Storage and transportation
Product shelf life in unopened original packaging: 36 months
Stir before use. Separation or turbidity may occur.

Applications

Coatings industry

Special features and benefits
BYK-1796 is an outstanding silicone defoamer that is especially suitable for 100% 2-component systems. The additive displays very good defoaming and is effective against both macro and microfoam. Even in low doses, BYK-1796 has very powerful defoaming properties, which makes it particularly recommended for highly viscous systems that have a certain tendency towards foam stabilization. Furthermore, the additive is characterized by being very effective in high-solid and solvent-free systems based on epoxy and polyurethane resins, as they are used in floor coatings or protective coatings.

Recommended use

Floor coatings	■
Marine and protective coatings	☐
Wood and furniture coatings	☐
General industrial coatings	☐
Architectural coatings	☐

■ Especially recommended ☐ Recommended

Recommended levels
0.1-1 % 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
To achieve optimal defoaming, BYK-1796 should be added as early as the millbase stage. If incorporating at a later stage, sufficiently high shear forces must be applied to ensure a good distribution of the defoamer and to prevent cratering.

Special note
Due to the strong defoaming power of BYK-1796, it is therefore recommended to check the intercoat adhesion and recoatability when it is used in multi-layer systems.

Adhesives and sealants

Special features and benefits
BYK-1796 is a silicone defoamer for 100 % 2-component epoxy and polyurethane systems. The additive displays very efficient defoaming of both macro and microfoam. Even in low doses, BYK-1796 has very powerful defoaming properties. The additive is therefore particularly recommended for highly viscous systems that have a certain tendency towards foam stabilization.

Recommended use

Epoxy adhesives	■
Polyurethane adhesives	▢

■ Especially recommended ▢ Recommended

Recommended levels
0.1-1.5 % 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
Stir in the resin before adding other components.

Thermosets

Special features and benefits
BYK-1796 displays an outstanding efficiency when releasing air from all epoxy resin systems such as cast resins, infusion or winding systems. Furthermore, it has very good degassing properties in polyurethane systems, like, for example, transparent gel coats. The use of BYK-1796 shortens the evacuation time in the production process or the degassing times in the application, and it produces a more high-quality product.

Recommended use

Epoxy resin systems	■
Polyurethane resin systems	■

■ Especially recommended ▢ Recommended

Recommended levels

0.1-1 % 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

To achieve an optimum degassing, BYK-1796 should be added to the epoxy resin already at the start of the production. If incorporating at a later stage, sufficiently high shear forces must be applied to ensure a good distribution of the air release agent, and to prevent surface defects.

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