BYK-1789

Solvent-free, silicone-containing defoamer for aqueous, high build and fast-drying coating systems and adhesives. For improving air release and effectively preventing microfoam.

Product Data

Composition
Polyether-modified polydimethylsiloxane with hydrophobic solids

Solvent-free

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

Active substance: 100 %
Density (20 °C): 1.01 g/ml
Flash point: > 120 °C

Storage and Transportation
To be stored and transported between 0 °C and 50 °C. Separation or turbidity may occur. Mix well before use. Close the container tightly after use.

Applications

Coatings Industry

Special Features and Benefits
BYK-1789 is a solvent-free, highly effective defoamer for water-borne coating systems. It removes microfoam, particularly in high build systems. BYK-1789 is effective primarily in fast-drying, aqueous systems. It also improves the substrate wetting of the applied coating. BYK-1789 is therefore particularly recommended for DTM (direct to metal) coatings. BYK-1789 has been specially developed for use in aqueous epoxy systems. The additive is shear stable, which makes it particularly suitable for airless spray application. At the same time, BYK-1789 also demonstrates good compatibility and outstanding effectiveness in other systems, such as ambient-curing acrylate systems. The additive retains its properties even after long-term storage of the coating. Its excellent defoaming and substrate wetting properties make BYK-1789 the first choice for demanding aqueous systems.

Recommended Use

Marine and corrosion protection coatings	■
General industrial coatings	■
Architectural coatings	□
Wood and furniture coatings	□
Floor coatings	■

■ especially recommended □ recommended

Recommended Levels
0.5-1.5 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. Optimal dosages are determined through a series of laboratory tests.

Incorporation and Processing Instructions
BYK-1789 can be incorporated in the millbase and the letdown stage.
Sufficiently high shear forces must be applied during incorporation to ensure a good distribution of the defoamer and to prevent cratering.

Adhesives & Sealants

Special Features and Benefits
BYK-1789 is an effective defoamer for aqueous adhesives. It prevents foam formation during production and application. BYK-1789 combines its effective defoaming effect with easy incorporation and good compatibility. The additive is particularly recommended for aqueous acrylate and polyurethane adhesive systems.

Recommended Levels
0.1-1 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. Optimal dosages are determined through a series of laboratory tests.

Incorporation and Processing Instructions
BYK-1789 can be added at any time during production. During incorporation, sufficiently high shear forces must be applied.

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