

BYK-327

Silicone-containing surface additive for solvent-borne, solvent-free, radiation-curable and aqueous systems to improve leveling. Has a defoaming effect in floor coatings.

Product Data

Composition

Polyether-modified polydimethylsiloxane

Typical Properties

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

Density (20 °C): 1.05 g/ml

Non-volatile matter (10 min., 150 °C): > 99 %

Flash point: >100 °C

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.

Applications

Coatings Industry

Special Features and Benefits

The additive improves the substrate wetting and achieves an excellent leveling. At the same time, it has little effect on increasing surface slip and reducing surface tension of coating systems. The additive usually has no negative effect on foam stabilization.

Recommended Use

It is suitable for both water-based and solvent-borne OPVs in the can coatings area. In industrial coatings, it performs well in 2-component polyaspartic systems. In floor coatings based on 2-component polyaspartics, epoxy and polyurethane, it also has a defoaming effect.

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

especially recommended recommended

Recommended Levels

0.05-0.5 % 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-327 is miscible with most common solvents, as well as with water without causing turbidity. This makes BYK-327 particularly suitable for use in clear coats. The additive can be incorporated during any stage of the production process, including post-addition.

Thermosets

Special Features and Benefits

BYK-327 improves the leveling and wetting, and prevents the formation of Bénard cells. It also acts as a defoamer/air release agent during production and application. The additive also slightly reduces the surface tension. It is suitable for filled systems due to slight turbidity.

Recommended Use

Recommended for systems based on polyurethane and epoxy resins.

Recommended Levels

0.05-0.3 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. For optimum performance, the additive must be incorporated into the millbase before addition of pigments.

Incorporation and Processing Instructions

Stir in the resin before adding other components. You can also add BYK-327 to finished systems.



Additive Guide



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