

BYK-3740

Silicone-containing surface additive for solvent-borne coating systems and thermosets with a slight reduction in surface tension and a slight increase in surface slip. Improves leveling and has a defoaming effect.

Product data

Composition

Solution of a polyether-modified polymethylalkylsiloxane

Cumene-free

Typical properties

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

Density (20 °C):	0.87 g/ml
Non-volatile matter (60 min, 105 °C):	approx. 52 %
Solvents:	aromatic-free white spirit/methoxypropyl acetate 9/1
Flash point:	approx. 52 °C

Special note

BYK-3740 is the cumene-free version of BYK-320.

Applications

Coatings industry

Special features and benefits

BYK-3740 is a leveling additive for solvent-borne coatings causing only a slight reduction in the surface tension of the coating system and a slight increase in surface slip. It also has defoaming properties and is particularly suitable for non-polar to medium-polar systems. The defoaming effect intensifies with increasing polarity. Furthermore, the additive prevents cleaning traces (wiper marks) from showing through when the coating is recoated. To avoid this defect (also called "ghosting"), the product must be used in the coating layer that is to be recoated.

Recommended use

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

especially recommended recommended

Recommended levels

0.05–0.6 % 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

The additive can be incorporated during any stage of the production process, including post-addition.

Special note

Unlike so-called silicone oils, this additive is very user friendly. Nevertheless, before use it should be determined in a series of tests whether foam is stabilized in certain systems. Similarly, the recoatability and cratering should be checked.

Thermosets**Special features and benefits**

The additive causes only a slight reduction in the surface tension. It is a leveling additive with defoaming properties and is particularly suitable for non-polar to medium-polar systems. Its defoaming effect intensifies with increasing polarity.

Recommended use

The additive is recommended for all ambient curing resin systems such as unsaturated polyester resins and epoxy resins.

Recommended levels

0.05–0.6 % 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

The additive can be incorporated during any stage of the production process, including post-addition.



Your local
contact

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This issue replaces all previous versions.