

BYK-3568

Surface-active additive to improve leveling and increase the surface energy of solvent-borne, 100 %, and UV systems, with a medium reduction in surface tension and a medium increase in surface slip.

Product data

Composition

Polyether- and silicone-macromer-modified polyacrylate

Typical properties

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

Density (20 °C):	1.07 g/cm ³
Active substance:	100 %
Flash point:	> 100 °C
Color:	Colorless- light yellow, clear-slight cloudy
Delivery form:	liquid

Storage and transportation

Product shelf life in unopened original packaging: 36 months

At temperatures below 10 °C the product may become solid. To be stored and transported between 10 °C and 50 °C.

Applications

Coatings industry

Special features and benefits

BYK-3568 is a surface-active additive that provides a medium reduction in the surface tension of liquid coatings, particularly in solvent-borne industrial and automotive coatings. This ensures good substrate wetting and anticratering properties. Once the coating has cured, BYK-3568 increases not only the coating's surface slip but also its surface energy. This can have a positive effect on the wetting and adhesion of the next coating layer, printing ink, label, or adhesive. BYK-3568 has been developed for solvent-borne, 100 %, and UV systems. Its suitability for aqueous systems depends greatly on the compatibility.

Recommended use

Automotive OEM coatings	<input checked="" type="checkbox"/>
Automotive refinish coatings	<input checked="" type="checkbox"/>
General industrial coatings	<input checked="" type="checkbox"/>
Architectural coatings	<input type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>

especially recommended recommended

Recommended levels

0.1-1 % additive (as supplied) based on the total formulation, depending on the application.

When using higher dosages, especially in automotive clearcoats, the possible effect on water sensitivity should be tested.

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 added at any stage of the coating manufacture as long as homogeneous incorporation is ensured.

Special note

As a result of slight incompatibility or by means of suitable dosage, BYK-3568 must be present at a sufficient concentration at the coating/air interface in order to increase the surface energy of the cured coating. The polyether modifications are conditionally temperature stable and can degrade at higher baking temperatures (e.g. > 10 min at 170 °C), which can affect the surface energy and recoatability. BYK-3568 is not reactive.

The long-term effect on the surface energy is highly dependent on the system used.



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