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
Silicone- and polyether-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/ml
Non-volatile matter (10 min., 150 °C):	> 97 %
Flash point:	> 100 °C
Appearance:	colorless to yellowish, clear to slightly turbid

Storage and Transportation
When storing below 10 °C, warm to room temperature before use.

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 anti-cratering 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 coatings	■
General industrial coatings	■
Architectural coatings	□
Wood and furniture coatings	□

■ especially recommended □ recommended

Recommended Levels

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

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

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

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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