BYK-3565

Surface-active additive to improve leveling and increase the surface energy of aqueous, solvent-borne, UV and 100% systems with anti-cratering properties, especially in aqueous systems.

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.

Appearance:	Colorless to yellowish, clear to hazy
Density (20 °C):	1.06 g/ml
Non-volatile matter (10 min., 150 °C):	> 97 %
Flash point:	88 °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.

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

Applications

Coatings Industry

Special Features and Benefits
Firstly, BYK-3565 is a leveling additive that combines good leveling with anti-cratering properties, especially in aqueous systems. Secondly, given suitable compatibility, it can increase the surface energy of the cured coating film in all systems, which positively effects the wetting and leveling of the next coating layer as well as intercoat adhesion.

Recommended Use

Automotive coatings	■
Industrial coatings	■
Architectural coatings	■

■ especially recommended □ recommended

Recommended Levels

0.1-2% 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.

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-3565 must be present at a sufficient concentration at the coating/air interface in order to increase the surface energy of the cured coating film. The polyether modifications are conditionally temperature stable and can break down at higher baking temperatures (e.g. >10 min at 170 °C), which can affect the surface energy and recoatability. BYK-3565 is not reactive. The long-term effect on the surface energy is highly dependent on the system used.

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