

BYK-3566

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

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 slightly turbid
Density (20 °C):	1.06 g/ml
Non-volatile matter (10 min., 150 °C):	> 97 %
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.

Storage and Transportation

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

Applications

Coatings Industry

Special Features and Benefits

BYK-3566 is a surface-active additive that combines good leveling with anti-cratering properties, especially in aqueous systems. However, the silicone macromers contained within also promote the orientation of the additive toward the coating/air interface in solvent-borne, 100 % and UV systems, which has a positive effect on the wetting and leveling of the next coating layer as well as its adhesion. In aqueous systems, BYK-3566 can help to improve the collection of spray mist.

Recommended Use

Automotive coatings	<input checked="" type="checkbox"/>
Industrial coatings	<input checked="" type="checkbox"/>
Architectural coatings	<input checked="" type="checkbox"/>

☒ 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-3566 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 degrade at higher baking temperatures (e.g. > 10 min at 170 °C), which can affect the surface energy and recoatability. BYK-3566 is not reactive. The long-term effect on the surface energy is highly dependent on the system used.



Additive Guide



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