

# 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

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):	1.06 g/cm <sup>3</sup>
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  
 To be stored and transported at a temperature below 50 °C.

## 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 OEM coatings	<input checked="" type="checkbox"/>
Automotive refinish coatings	<input type="checkbox"/>
General industrial coatings	<input type="checkbox"/>
Architectural coatings	<input type="checkbox"/>
Floor coatings	<input type="checkbox"/>
Marine and protective coatings	<input type="checkbox"/>
Wood and furniture coatings	<input 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. 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-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.



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