

## BYK-3550

Substrate wetting agent and leveling agent based on a silicone acrylate copolymer for solvent-borne coating systems. Strong reduction of the surface tension combined with very good recoatability.

### Product data

#### Composition

Solution of a 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):	1.01 g/cm <sup>3</sup>
Non-volatile matter (10 min, 150 °C):	52 %
Solvent:	methoxypropyl acetate
Flash point:	45 °C
Color:	colorless
Delivery form:	liquid

#### Storage and transportation

Product shelf life in unopened original packaging: 36 months

Temperature sensitive. To be stored and transported at a temperature below 50 °C.

### Applications

#### Coatings industry

##### Special features and benefits

The additive generally provides a strong reduction in the surface tension of the wet coating, which improves substrate wetting and prevents cratering. It also improves leveling. BYK-3550 exhibits a different range of properties depending on the polarity of the system. In polar coatings, it shows an excellent compatibility, which enables homogeneous distribution in the film. In non-polar systems, BYK-3550 has a slight incompatibility, which results in a concentration at the surface of the coating.

##### Polar systems:

The influence on the surface energy of the cured coating film is negligible. Therefore surface slip is not increased and the recoatability and adhesion of protective foils and adhesives is improved. BYK-3550 can be used in the complete coating structure, from the primer to the top coat. The additive also improves the orientation of matting agents.

##### Non-polar systems:

BYK-3550 improves the anti-blocking properties, without influencing the recoatability or the gloss.

**Recommended use**

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

especially recommended    recommended

**Recommended levels**

0.05-0.4% additive (as supplied) based on the total formulation, for anti-blocking up to 0.6%.

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 incorporated during any stage of the production process; however, post-addition is recommended. It is important to test the compatibility in the respective coating system.



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