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-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/ml
Non-volatile matter (10 min., 150 °C):	52 %
Solvents:	Methoxypropylacetate
Flash point:	45 °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
The product may become turbid at temperatures above 30 °C. Please stir before use.
The effectivity of the product is not affected.

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.

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Data Sheet
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Recommended Use

Industrial coatings	■
Automotive coatings	■
Architectural coatings	■
Can coatings	■
Coil coatings	■

■ especially 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. Optimal levels are determined through a series of laboratory tests.

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.

Additive Guide

BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com