

Data Sheet Issue 09/2015

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.

Data Sheet Issue 09/2015

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.





Google play

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

info@byk.com www.byk.com ANTI-TERRA®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, DISPERBYK®, DISPERPLAST®, LACTIMON®, NANOBYK®, PAPERBYK®, SILBYK®, VISCOBYK®, and Greenability® are registered trademarks of BYK-Chemie. ACTAL®, ADJUST®, ADVITROL®, ASTRABEN®, BENTOLITE®, CLAYTONE®, CLOISITE®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, LAPONITE®, MINERAL COLLOID®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PURE THIX®, RHEOCIN®, RIC-SYN®, TIXOGEL®, and VISCOSEAL® are registered trademarks of BYK Additives.

AQUACER®, AQUAMAT®, AQUATIX®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, HORDAMER®, and MINERPOL® are registered trademarks of BYK-Cera. SCONA® is a registered trademark of BYK Kometra.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their spitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments. This issue replaces all previous versions – Printed in Germany