BYK-3560

Silicone and fluorine-free surface additive for increasing the surface energy in aqueous, solvent-borne, UV-curable, and high-solid systems.

Product Data

Composition
Polyether macromer-modified polyacrylate

Silicone-free
Fluorine-free

Typical Properties
The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (68 °F): 8.86 lbs/US gal
Active substance: 100 %

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 (50 °F), warm to room temperature before use.

Applications

Coatings Industry

Special Features and Benefits
BYK-3560 increases the surface energy of cured coatings overall, especially the polarity. This enables the improved adhesion of subsequent layers such as paint, laminating foils, adhesives, and printing inks. The cured coating is also wetted more effectively, producing an excellent leveling of the subsequent coating. In addition, BYK-3560 also improves the leveling of the system in which it is being used. BYK-3560 has no impact on the surface tension of the liquid coating and maintains the high transparency of clear coats when added to them. The additive exhibits good processing properties and can be used in aqueous, solvent-borne, UV-curable, and high-solid systems.

Recommended Use

Can coatings	■
Coil coatings	■
Automotive coatings	■
Industrial coatings	■
Wood and furniture coatings	□

■ especially recommended □ recommended

Recommended Levels

% additive (as supplied) based on the total formulation:

aqueous systems without co-solvents:	0.1-0.5
aqueous systems with high proportion of co-solvents:	0.6-1
solvent-borne, polar systems:	1-2
solvent-borne, non-polar systems:	0.5-1.5

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, including post-addition.

Special Note

BYK-3560 must be sufficiently incompatible in the system so as to be able to orientate toward the coating-air interface. The drying temperature can influence the effectiveness. The polyether structures can degrade at temperatures above 170 °C (338 °F) (baking time over 10-15 min). BYK-3560 does not cross-link with the binder system. Its long-term effect is therefore very system-dependent.

BYK USA Inc.
524 South Cherry Street
P.O. Box 5670
Wallingford, CT 06492
USA
Tel 203 265-2086
Fax 203 284-9158

cs.usa@byk.com
www.byk.com/additives

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