DISPERBYK-161

Wetting and dispersing additive for solvent-borne automotive and industrial coatings and pigment concentrates. Particularly suitable for stabilizing carbon blacks with a fine particle size as well as organic pigments, especially in two-pack PU and baking systems. Outstanding reduction of millbase viscosity.

Product Data

Composition
Solution of a high molecular weight block copolymer with pigment affinic groups

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

Amine value:	11 mg KOH/g
Density (68 °F):	8.47 lbs/US gal
Non-volatile matter (20 min., 302 °F):	30 %
Solvents:	Methoxypropylacetate/Butylacetate 6/1
Flash point:	100 °F

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
Separation or turbidity may occur at temperatures below 0 °C / 32 °F. Warm to 20° C / 68 °F and mix well.

Special Note
The after-treatment of some organic pigments may negatively affect the efficiency of the additive. In such cases, tests with the untreated pigment of the same type may be successful. When used in coil coatings, the interaction of this cationic additive with the acid catalyst must be taken into account. Amine-blocked acids are less suitable than free acids or epoxy-blocked acids. This problem can be avoided by using additives from the DISPERBYK-170 product line.

Applications

Coatings Industry

Special Features and Benefits
The additive deflocculates pigments and stabilizes them by means of steric hindrance. It provides equal electrical charge to the pigment particles. The resulting repulsion and the steric stabilization prevent a possible co-flocculation, which leads to flood and float-free color in pigment mixtures. The deflocculating properties of the additive increase gloss, color strength, transparency, and hiding power and reduce the viscosity of the millbase.

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Applications

Automotive coatings	■
Industrial coatings	■
Architectural coatings	□
Protective coating systems	□

■ especially recommended □ recommended

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 10-15 %
Titanium dioxide: 5-6 %
Organic pigments: 30-90 %
Carbon blacks: 70-140 %

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments. The resin and solvent components of the millbase are pre-mixed and then the additive is slowly incorporated while stirring continuously. Do not add the pigments until the additive has been fully distributed.

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