DISPRBYK-161 TF

Wetting and dispersing additive for solvent-borne automotive and industrial coatings and pigment concentrates. Particularly suitable for the stabilization of fine-particle carbon blacks and organic pigments, especially in 2-pack PU and baking systems. Excellent reduction of millbase viscosity.

Product data

Composition
Solution of a modified polyurethane

Tin-free

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

Density (20 °C):	1.02 g/ml
Solvents:	Methoxypropylacetate/butylacetate 6/1
Non-volatile matter (20 min., 150 °C):	30 %
Amine value:	11 mg KOH/g
Flash point:	39 °C

Storage and transportation
Separation or turbidity may occur during storage at temperatures below 0 °C. Warm up to 20 °C and mix well.

Special note
DISPERBYK-161 TF is the tin-free version of DISPERBYK-161.

Post-treatment of some organic pigments can negatively influence the effectiveness of DISPERBYK-161 TF. In these 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 observed. Amine-blocked acids are less suitable than free acids or epoxy-blocked acids. By using additives from the DISPERBYK-170 range, this problem can be avoided.

Applications

Coatings industry

Special features and benefits
DISPERBYK-161 TF deflocculates pigments and stabilizes them by means of steric hindrance. It provides equal electrical charge to the pigment particles. The resulting repulsion effect and the steric stabilization prevent any coflocculation which leads to flood and float-free color in pigment blends. The deflocculating property of the additive results in increased gloss, color strength, transparency or hiding power, and a reduced millbase viscosity.

Recommended use

Automotive coatings	■
Industrial coatings	■
Architectural coatings	□
Protective coatings	□

■ 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, DISPERBYK-161 TF must be incorporated into the millbase before addition of pigments. Pre-mix the resin and solvent components of the millbase 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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