DISPERBYK-170 TF

Wetting and dispersing additive for solvent-borne coil coatings and industrial coatings. Standard additive for acid-catalyzed and acid-curable coating systems.

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.

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

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

Special note
DISPERBYK-170 TF is the tin-free version of DISPERBYK-170.
Check the pot life when using in 2K polyurethane systems.

Applications

Coatings industry

Special features and benefits
The additive deflocculates pigments by means of steric stabilization. As a result of the small particle sizes of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. In addition, the transparency is increased in transparent pigments and the hiding power in opaque pigments. The viscosity is reduced. In this way, the flow characteristics are also improved and a higher pigment load is possible. DISPERBYK-170 TF has an extremely high molecular weight and this results in the outstanding stabilization of inorganic and organic pigments.

Recommended use

DISPERBYK-170 TF is recommended for industrial coatings and particularly for coil coatings.
The preferred fields of application are acid-catalyzed polyester/melamine top coats and PVDF systems.

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	10-20 %
Titanium dioxide:	5-6 %
Organic pigments:	35-70 %
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.

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