DISPERBYK-2150 TF

Wetting and dispersing additive for solvent-borne coating systems and resin-containing pigment concentrates with a broad compatibility. Particularly compatible with thermoplastic acrylics (TPA) and cellulose nitrate.

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
Non-volatile matter (10 min., 150 °C):	52 %
Amine value:	57 mg KOH/g
Flash point:	40 °C

Storage and transportation
Mix well before use. Separation or turbidity may occur. Warm up to 30-60 °C and mix well.

Special note
DISPERBYK-2150 TF is the tin-free version of DISPERBYK-2150.

Tests must be performed to determine whether DISPERBYK-2150 TF causes yellowing when used in white baking systems. In these cases, DISPERBYK-180 is recommended to stabilize titanium dioxide.

Applications

Coatings industry

Special features and benefits
The additive deflocculates pigments by steric stabilization. It also generates a uniform electrical charge in 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. As a result of the small particle size 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 is improved in opaque pigments. The viscosity is reduced. In this way, the flow characteristics are also enhanced and a higher pigment load is possible.

Recommended use

DISPERBYK-2150 TF is exceptionally compatible with all standard solvent-borne coating resins, and particularly with thermoplastic acrylics (TPA) and cellulose nitrate. The additive is particularly recommended for the production of resin-containing pigment concentrates. It considerably reduces millbase viscosity, which enables a high pigment content in the concentrate. DISPERBYK-2150 TF can also be used for direct pigment grinding in solvent-borne coatings.

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	10-15 %
Titanium dioxide:	3-5 %
Organic pigments:	30-60 %
Carbon blacks:	60-140 %

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. Pre-mix the resin and solvent components of the millbase and let the additive flow in whilst stirring. Do not add the pigments until the additive has been fully distributed.

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