

DISPERBYK-184 TF

Wetting and dispersing additive for aqueous paint systems and resin-containing aqueous pigment concentrates.

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):	1.09 g/ml
Solvents:	Dipropylene glycol monomethyl ether/propylene glycol 2/1
Non-volatile matter (20 min., 150 °C):	52 %
Amine value:	15 mg KOH/g
Flash point:	> 84 °C

Storage and transportation

Mix well before use. Separation or turbidity may occur at temperatures below 5 °C. Warm up to 20 °C and mix well.

Special note

DISPERBYK-184 TF is the tin-free version of DISPERBYK-184.

Post-treatment of some organic pigments can negatively influence the effectiveness of the additive. In these cases, tests with the untreated pigment of the same type may be successful.

Applications

Coatings industry

Special features and benefits

The additive defloculates pigments by means of steric stabilization. As a result of the small particle size of the defloculated pigments, high gloss values can be achieved and the color strength is optimized. Transparency and hiding power also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	15-20 %
Titanium dioxide:	4-6 %
Organic pigments:	20-45 %
Carbon blacks:	65-80 %

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

Incorporation and processing instructions

DISPERBYK-184 TF is especially recommended if dispersion is being carried out directly in an aqueous resin. 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 then gradually add the additive DISPERBYK-184 TF while stirring. Do not add the pigments until the additive has been fully distributed.



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This issue replaces all previous versions.