

DISPERBYK-174

Wetting and dispersing additive for solvent-borne coil coatings and industrial coatings. Suitable for acid-catalyzed and acid-curable coating systems. Particularly recommended for manufacturing highly filled pigment concentrates.

Product data

Composition

Solution of modified polyurethane

Typical properties

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

Density (20 °C):	0.97 g/ml
Non-volatile matter (20 min, 150 °C):	52.5 %
Solvents:	Xylene/methoxypropylacetate/butylacetate 3/2/1
Flash point:	31 °C
Acid value:	22 mg KOH/g

Special note

Check the pot life when using in 2-pack polyurethane systems.

Storage and transportation

Separation or turbidity may occur at temperatures below 5 °C. Heat to 40 °C and mix well.

Applications

Coatings industry

Special features and benefits

The additive defloculates pigments by steric stabilization. As a result of the small particle sizes of the defloculated 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 higher pigment loading is possible.

Recommended use

DISPERBYK-174 is recommended for industrial coatings and particularly for coil coatings. In addition to the required pigment stabilization, the additive also reduces the millbase viscosity, which enables the easy formulation of highly filled pigment concentrates.

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	10–15 %
Titanium dioxide:	3–5 %
Organic pigments:	35–60 %
Carbon black:	70–100 %

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments.



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This issue replaces all previous versions.