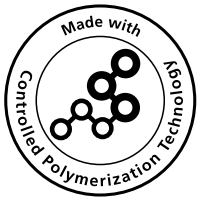
DISPERBYK-2025

Wetting and dispersing additive for solvent-borne coil coatings and pigment concentrates. Suitable for binder-free and binder-containing pigment concentrates.

Product Data



Composition
Solution of a structured acrylate copolymer with pigment-affinic groups

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

Amine value:	37 mg KOH/g
Acid value:	38 mg KOH/g
Density (20 °C):	1.04 g/ml
Non-volatile matter (30 min., 150 °C):	70 %
Solvents:	Methoxypropylacetate
Flash point:	48 °C

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Applications

Coatings Industry

Special Features and Benefits
The additive deflocculates pigments by means of 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 non-floating coloring 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 in opaque pigments. The viscosity is reduced. In this way, the leveling properties are also improved and a higher pigment load is possible.

DISPERBYK-2025 can be used with organic and inorganic pigments. As a result of the narrow molecular weight distribution of the additive, it is compatible with many different binder systems, which is why it is suitable both for the production of pigment concentrates as well as for co-grinds. In acid-catalyzed and acid-curable systems, the additive does not have a negative influence on the drying properties. In baking systems, no discoloration is evident even at higher temperatures.

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Recommended Use

Coil coatings	■
Industrial coatings	■
Wood coatings	■
Automotive coatings	□

■ especially recommended □ recommended

Pigment grinding with DISPERBYK-2025 can take place either with or without binder. The additive is suitable for single grinds and co-grinds.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 5-12 %
Titanium dioxides: 1.5-2.2 %
Organic pigments: 20-40 %
Carbon blacks: 40-60 %

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

Incorporation and Processing Instructions

Wetting and dispersing additives should generally be added to the millbase. Only in this way can they be fully effective. Pre-mix the resin and solvent components of the millbase and then gradually let the additive flow in whilst stirring. Only add the pigments when the additive has been thoroughly distributed.

Additive Guide

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