

DISPERBYK-2000

Wetting and dispersing additive for solvent-borne automotive coatings to stabilize pigments in base coats which contain CAB. Increases the jetness of carbon blacks in automotive coatings.



Product data

Composition

Solution of cationic methacrylate copolymer

Typical properties

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

Density (20 °C):	1.02 g/cm ³
Non-volatile matter (20 min, 150 °C):	40 %
Solvent:	methoxypropyl acetate/butylglycol 1/1
Flash point:	45 °C
Amine value:	4 mg KOH/g
Delivery form:	liquid

Storage and transportation

Product shelf life in unopened original packaging: 36 months
To be stored and transported between 0 °C and 50 °C.

Applications

Coatings industry

Special features and benefits

DISPERBYK-2000 defloculates 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, transparency is increased in transparent pigments and hiding power is increased in opaque pigments. In the case of fine-particle carbon blacks, DISPERBYK-2000 produces a significant improvement in the jetness of carbon blacks. Furthermore, the viscosity is reduced which improves the leveling properties and enables a higher pigment load.

Recommended use

DISPERBYK-2000 is particularly recommended for automotive coatings and is suitable for base coats containing CAB and all top coats. It prevents the reflocculation of the pigments even when CAB is added

after grinding.

For an outstanding grind result it is not necessary to use CAB in the grinding phase.

Automotive OEM coatings	<input checked="" type="checkbox"/>
Automotive refinish coatings	<input checked="" type="checkbox"/>
General industrial coatings	<input type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>

especially recommended recommended

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 12-17 %
Titanium dioxide: 5 %
Organic pigments: 20-70 %
Carbon black: 70-140 %

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. 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. In less polar binder solutions, adding DISPERBYK-2000 produces a brief increase in viscosity. This is product-specific and has no influence on the final dispersing result. The brief increase in viscosity can be prevented by adding small quantities of polar solvent (such as an alcohol or glycol) either to the additive or to the millbase.



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