DISPERBYK-2150

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

Product Data

Composition
Solution of a block copolymer with basic, pigment-affinic groups

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

Amine value:	57 mg KOH/g
Density (68 °F):	8.43 lbs/US gal
Non-volatile matter (10 min., 302 °F):	52 %
Solvents:	Methoxypropylacetate
Flash point:	111 °F

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.

Storage and Transportation
Mix well before use. Separation or turbidity may occur during storage and transportation. Warm to 30-60 °C (86-140 °F) and mix well.

Special Note
Before using in white baking enamel coatings, check whether DISPERBYK-2150 causes yellowing. In this case 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 sizes of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. In addition, the additive increases transparency in transparent pigments and hiding power in opaque pigments. Viscosity is reduced. In this way, the leveling properties are also improved and higher pigment load is possible.

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Recommended Use

DISPERBYK-2150 has excellent compatibility with all standard solvent-borne coating binders, in particular also with thermoplastic acrylates (TPA) and cellulose nitrate. It is particularly recommended for the manufacture of pigment concentrates which contain binders. Since it greatly reduces the mill base viscosity, it enables a high pigment content in the concentrate. The additive can also be used for direct pigment grinding in solvent-borne coatings.

Recommended Levels

Additive dosage as supplied based on pigment:

Inorganic pigments:	10-15 %
Titanium dioxides:	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 mill base and then gradually let the additive flow in whilst stirring. Only add the pigments when the additive has been thoroughly distributed.

BYK USA Inc.
524 South Cherry Street
P.O. Box 5670
Wallingford, CT 06492
USA
Tel 203 265-2086
Fax 203 284-9158

cs.usa@byk.com
www.byk.com/additives