

DISPERBYK-180

Solvent-free wetting and dispersing additive for solvent-borne, solvent-free and aqueous coating systems, printing inks and adhesives for stabilizing inorganic pigments, in particular titanium dioxide.

Product Data

Composition

Alkylol ammonium salt of a copolymer with acidic groups

Typical Properties

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

Amine value:	94 mg KOH/g
Acid value:	94 mg KOH/g
Density (68 °F):	8.97 lbs/US gal
Non-volatile matter (10 min., 302 °F):	81 %

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. Heat to 30-40 °C (86-104 °F) and stir.

Applications

Coating Industry, Printing Inks and Adhesives

Special Features and Benefits

The additive deflocculates pigments by means of steric stabilization. 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. Transparency and hiding powder also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended Use

The additive is recommended for all aqueous, solvent-borne and solvent-free systems to stabilize inorganic pigments, specifically titanium dioxide.

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Data Sheet
Issue 11/2012

Recommended Levels

Amount of additive (as supplied) based upon pigment.

Inorganic pigments: 5-10 %

Titanium dioxides: 1.5-2.5 %

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. The resin and solvent components of the millbase are pre-mixed and then the additive is slowly incorporated while stirring continuously. Do not add the pigments until the additive has been fully distributed.



Additive Guide



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