

DISPERBYK-184

Wetting and dispersion additive for aqueous coating systems and for aqueous pigment concentrates which contain resin.

Product Data

Composition

Solution of a high molecular weight block 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:	15 mg KOH/g
Density (68 °F):	9.05 lbs/US gal
Non-volatile matter (20 min., 302 °F):	52 %
Solvents:	Dipropylene glycol monomethyl ether/propylene glycol 2/1
Flash point:	> 172 °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 at temperatures below 5 °C (41 °F). Warm to 20 °C (68 °F) and mix well.

Special Note

The treatment of some organic pigments can negatively influence the effectiveness of the additive. In these cases, tests with the untreated pigment of the same type may be successful.

Applications

Coatings Industry

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 power also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

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Recommended Levels

Additive quantity (as supplied) based upon pigment.

Inorganic pigments: 15-20 %
Titanium dioxides: 4-6 %
Organic pigments: 20-45 %
Carbon blacks: 65-80 %

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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