DISPERBYK-2012

Wetting and dispersing additive for aqueous coatings and printing inks. Particularly suited for grinds that contain binders (emulsions and water-reducible resins) as well as for binder-free pigment concentrates.

Product Data

Composition
Solution of a 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:	7 mg KOH/g
Acid value:	7 mg KOH/g
Density (68 °F):	8.81 lbs/US gal
Non-volatile matter (20 min., 302 °F):	40 %
Solvents:	Water

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
Separation or turbidity may occur at temperatures below 5 °C (41 °F). Warm to 20 °C (68 °F) and mix well.

Applications

Coatings and Printing Inks

Special Features and Benefits
Due to its broad compatibility with many aqueous binders, DISPERBYK-2012 is the first choice for grinds that contain binders. It stabilizes a multitude of pigments, primarily transparent and opaque organic pigments and carbon blacks. Also for binder-free grinds, it has versatile applications and the presence of amines, rheology additives, wetting agents and organic co-solvents in the millbase is not a problem. This high molecular weight additive improves color strength, transparency, gloss, and storage stability through steric stabilization. It has no influence on the stability of pH-sensitive systems and is therefore particularly recommended for use in formulations based on cationic binders. Furthermore, DISPERBYK-2012 is suitable for use in aqueous road marking paints.

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Data Sheet
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Recommended Use

Automotive coatings	■
Industrial coatings	■
Wood and furniture coatings	□
Architectural coatings	□
Leather coatings	□
Printing inks	□

■ especially recommended □ recommended

Recommended Levels

Amount of additive (as supplied) based on the pigment:

Inorganic pigments: 5-30 %
Titanium dioxides: 4-10 %
Organic pigments: 50-100 %
Carbon blacks: 100-230 %

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. In the case of grinds that contain binders, the resin and water should be pre-mixed and then gradually let the additive flow in while stirring. If the water-soluble binder requires neutralization, the amine should be added prior to the DISPERBYK-2012. In the case of binder-free grinds, simply pre-mix the water and additive. In all cases, only add the pigments when the additive has been thoroughly distributed.

Additive Guide

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