

DISPERBYK-102

Solvent-free wetting and dispersing additive for solvent-borne and aqueous polar to medium-polar coating systems to improve the color acceptance of universal colorants of inorganic pigments in base coatings.

Product Data

Composition

Phosphoric acid ester

Typical Properties

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

Acid value: 101 mg KOH/g

Density (20 °C): 1.06 g/ml

Storage and Transportation

Separation or turbidity may occur at temperatures below 10 °C. Warm to 30-60 °C and mix well.

Special Note

The drying of alkyd resins can be affected if overdosed.

Applications

Coatings Industry

Special Features and Benefits

The additive deflocculates pigments through steric stabilization of the pigments. DISPERBYK-102 is primarily recommended for universal colorants based on DISPERBYK-185. It reduces viscosity and increases color strength. It can be used in solvent-borne and aqueous systems as a post-additive to improve color strength and color acceptance.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 5-10 %

Titanium dioxide: 1-3 %

As a post-additive to improve color acceptance: 0.5-2 % additive (as supplied) based upon total formulation.

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. To improve color acceptance, the additive can also be post-added into the coating.



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This issue replaces all previous versions.