

DISPERBYK-110

Wetting and dispersing additive for solvent-borne and solvent-free coatings and printing inks for stabilizing inorganic pigments, in particular titanium dioxide. Strong reduction of millbase viscosity.

Product Data

Composition

Solution of polymeric phosphoric acid ester

Typical Properties

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

Acid value:	53 mg KOH/g
Density (20 °C):	1.03 g/ml
Non-volatile matter (10 min., 150 °C):	52 %
Solvents:	Methoxypropylacetate/Alkylbenzenes 1/1
Flash point:	42 °C

Storage and Transportation

Mix well before use. Separation and turbidity may occur. Heat to 30-40 °C and stir.

Special Note

As a result of its high acid value, the additive may potentially accelerate the reaction of baking systems. Check the increase in viscosity during storage.

Applications

Coating Industry and Printing Inks

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. For inorganic pigmented coatings, which are applied using electrostatic high rotation equipment, haze is significantly reduced.

Recommended Use

The additive is recommended for all solvent-borne and solvent-free coatings and printing inks to stabilize inorganic pigments, specifically titanium dioxide. Its anionic character makes it ideal for acid-catalyzed systems (e.g. coil coatings).

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Data Sheet
Issue 08/2021

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 5-10 %

Titanium dioxides: 2-4 %

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.



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This issue replaces all previous versions.