DISPERBYK-110 SG

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.

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

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).

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 5–10 %
Titanium dioxide: 2–4 %

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments.

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