DISPERBYK-145

Solvent-free wetting and dispersing additive for solvent-free and solvent-borne coatings. Particularly suitable for stabilizing pigments in non-polar systems (alkyds, acrylates, TPA and epoxides).

Product Data

Composition
Phosphoric ester salt of a high molecular weight copolymer with pigment-affinic groups

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

Acid value:	76 mg KOH/g
Density (20 °C):	1.07 g/ml
Amine value:	71 mg KOH/g

Special Note
DISPERBYK-145 may adversely affect the coating adhesion to steel substrates in baking enamel systems. Before using in white baking enamel systems, check whether DISPERBYK-145 causes yellowing.

Applications

Coatings Industry

Special Features and Benefits
The additive deflocculates pigments by 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. In addition, the additive increases transparency with transparent pigments and hiding power with opaque pigments. Viscosity is reduced. In this way, the leveling properties are also improved and higher pigment loading is possible.

Recommended Use
DISPERBYK-145 is highly compatible with all standard coating binders. DISPERBYK-145 is particularly recommended for non-polar systems (alkyd and acrylate resins, TPA and epoxy resins).

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	5-10 %
Titanium dioxide:	1-3 %
Organic pigments:	10-25 %
Carbon black:	15-35 %

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 mill base before the addition of pigments.

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