DISPERBYK-2155 TF

VOC- and solvent-free wetting and dispersing additive for solvent-borne and solvent-free coating systems, floor coatings, and printing inks. Particularly recommended for the manufacture of pigment concentrates with broad compatibility. The 100 % active substance makes it particularly suitable for high-solid and solvent-free systems. DISPERBYK-2155 TF is the tin-free variant of DISPERBYK-2155.

Product Data

Composition
Polyglycol polyester modified polyalkylene imine

Tin-free
VOC-free

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

Amine value:	48 mg KOH/g
Active substance:	100 %
Density (20 °C):	1.06 g/ml
Refractive index:	1.478

Applications

Coatings and Printing Inks

Special Features and Benefits
DISPERBYK-2155 TF deflocculates pigments and stabilizes them by means of steric hindrance. It prevents a possible coflocculation, which leads to flood- and float-free color in pigment blends. The deflocculating property of the additive results in increased gloss, color strength, transparency or hiding power, and a reduced millbase viscosity.

Recommended Use
Due to its high solids content, DISPERBYK-2155 TF is particularly suitable for high-solid coating systems and floor coatings. The additive is exceptionally compatible with all standard coating binders such as alkyd resins, cellulose nitrate, polyols, chlorinated rubber, epoxides, and polyurethanes. DISPERBYK-2155 TF greatly reduces the viscosity of the millbase which enables a higher pigment content in pigment concentrates.

General industrial coatings	■
Wood and furniture coatings	■
Automotive coatings	■
Architectural coatings	□
Printing inks	□

■ especially recommended □ recommended

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	5-10 %
Titanium dioxide:	1-3 %
Organic pigments:	10-35 %
Carbon black:	15-75 %

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

Wetting and dispersing additives should generally be added to the millbase. Only in this way can they be fully effective. In binder-free dispersion, the solvent components of the millbase should be pre-mixed with the additive while stirring, prior to the addition of the pigment. If the grinds contain binder, the binder, solvent, and additive should be homogenized prior to adding the pigment.

Special Note

Deflocculated pigments have a greater tendency to settle. This applies particularly to inorganic pigments, which have a high density. The use of liquid rheology additives such as RHEOBYK-410 or RHEOBYK-430 in the grinding phase counters this phenomenon.

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