

DISPERBYK-2175

Solvent-free wetting and dispersing additive for aqueous, solvent-borne, and high-solid systems. Particularly suitable for the manufacture of pigment concentrates for acid-catalyzed systems with broad compatibility.

Product data

Composition

Polyurethane

Typical properties

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

Density (20 °C):	1.07 g/cm ³
pH value (1 % in water):	7.9
Active substance:	100 %
Acid value:	3.8 mg KOH/g
Amine value:	6.2 mg KOH/g
Delivery form:	liquid

Storage and transportation

Product shelf life in unopened original packaging: 36 months
To be stored and transported at a temperature below 50 °C.

Applications

Coatings industry

Special features and benefits

- Deflocculation through steric stabilization
- Molecular structure with multiple types of pigment-affinic groups enables:
 - Broad compatibility in aqueous, solvent-borne, and high-solid systems
 - Versatile pigment affinity
- Increases long-term color stability
- Improves color strength and transparency or hiding power
- Reduces millbase viscosity
- Creates anti-settling properties in some systems and improves in-can stability
- Can also be used as a post-add compatibilizer in some systems

Recommended use

DISPERBYK-2175 is suitable for aqueous, solvent-borne, and high-solid pigment concentrates and for use in the millbase. It can be used in acrylic, PU, and alkyd systems and is especially recommended for acid-catalyzed crosslinkable systems.

Wood and furniture coatings	☒
Architectural coatings	☐

☒ Especially recommended ☐ Recommended

Recommended levels

Amount of additive (as supplied) based on:

Inorganic pigments:	1-20 %
Titanium dioxide:	1-5 %
Organic pigments:	5-50 %
Carbon black:	15-100 %
Matting agents:	5-50 %

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 should be added to the millbase before the incorporation of the pigments. In binder-free dispersions, the water or solvent components of the millbase should be pre-mixed with the additive while stirring prior to the addition of the pigment. If the millbase contains binder, the binder, solvent, and additive should be homogenized prior to adding the pigment.

Post-addition is possible as long as the product is added slowly and under moderate to high shear forces.



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