DISPERBYK-2055

100 % wetting and dispersing additive for solvent-borne, solvent-free, and aqueous cost-sensitive formulations.

Product Data

Composition
Copolymer with pigment-affinic groups

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

Amine value:	40 mg KOH/g
Density (20 °C):	1.10 g/ml
Non-volatile matter (10 min., 150 °C):	100 %
Flash point:	110 °C

Applications

Coatings Industry

Special Features and Benefits
DISPERBYK-2055 is a high molecular-weight wetting and dispersing additive with a solids content of 100 %. It is liquid and has a good processing viscosity. DISPERBYK-2055 can be used in systems of varying polarity, from low-polarity solvent-borne systems, including air-drying alkyds, alkyd/melamine resins, nitrocellulose, 2-pack polyurethanes, acrylic/melamine resins, and UV-curable coatings, through to aqueous systems. In solvent-borne systems it can be used with or without grinding resin, whereas in aqueous formulations the best results are achieved with binder-free grinds. DISPERBYK-2055 is the perfect additive for co-grinds, in which different pigments are typically ground together, and for pigment concentrates. With DISPERBYK-2055, it is possible to produce binder-containing or binder-free pigment concentrates that can be used both in aqueous and in solvent-borne coatings. DISPERBYK-2055 stabilizes inorganic pigments, including titanium dioxide and transparent iron oxides, organic pigments, carbon blacks, effect pigments, fillers, and matting agents. DISPERBYK-2055 has no negative impact on coating adhesion (not even when applied directly to metal), water- and chemical resistance, or hardness and yellowing resistance. DISPERBYK-2055 has an excellent price-performance ratio.

Recommended Use

Industrial coatings	■
Wood and furniture coatings	■
Automotive coatings	■
Coil coatings	■
Protective coatings	■

■ especially recommended

Recommended Levels

Amount of additive (as supplied) based on the pigment:

Inorganic pigments:	8-12 %
Titanium dioxides:	2-3 %
Organic pigments:	10-35 %
Carbon blacks:	15-80 %

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

Incorporation and Processing Instructions

The wetting and dispersing additive should be added to the millbase. The pigments should be added only once the additive has been completely distributed. This ensures its maximum effectiveness.

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