DISPERBYK-2010

Solvent-free wetting and dispersing additive for aqueous coating systems to produce particularly economical, binder-free pigment concentrates.

Product data

Composition
Solution of modified styrene-maleic acid anhydride copolymer

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

Density (20 °C):	1.07 g/ml
Non-volatile matter (10 min, 150 °C):	40 %
Carrier:	water
Acid value:	20 mg KOH/g
Amine value:	20 mg KOH/g

Storage and transportation
Temperature sensitive. To be stored and transported between 5 °C and 40 °C. Separation or turbidity may occur. Mix well before use.

Special note
The additive is an emulsion.

Applications

Coatings industry

Special features and benefits
DISPERBYK-2010 provides a strong reduction in the millbase viscosity. It prevents the reflocculation of the pigments through steric stabilization and electrostatic repulsion. Deflocculated pigments provide high color strength development, good transparency or hiding power, and increase in gloss. It also has a positive influence on leveling. DISPERBYK-2010 has a relatively hydrophobic structure to minimize the influence on the water resistance of the dry coating.

Recommended use

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

■ especially recommended □ recommended

DISPERBYK-2010 is particularly recommended for producing binder-free, stable pigment concentrates for non-floating aqueous coatings. Pigment dispersion should only take place in water (without binders, amines or co-solvents). DISPERBYK-2010 contains no organic solvents and is for use only in aqueous systems.

Recommended levels

Additive (as supplied) based on the pigment:

Inorganic pigments:	20–30 %
Titanium dioxide:	10–12 %
Organic pigments:	30–75 %
Carbon black:	130–150 %

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

Incorporation and processing instructions

To produce binder-free pigment concentrates, simply mix the additive with the water. Only add the pigments once the additive has been uniformly distributed. Pigment dispersion should only take place in water (without binders, amines or co-solvents).

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