

DISPERBYK-2014

100% solvent-free wetting and dispersing additive for solvent-borne, solvent-free, aqueous and UV coatings, as well as for aqueous printing inks and inkjet inks.

Product Data

Composition

Copolymer with pigment-affinic groups

Solvent-free
VOC-free (< 1500 ppm)

Typical Properties

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

Amine value: 19 mg KOH/g
Active substance: 100 %
Density (20 °C): 1.10 g/ml
Flash point: > 150 °C
Viscosity: medium viscosity

Applications

Coatings Industry

Special Features and Benefits

Owing to its balanced product polarity and 100% delivery form DISPERBYK-2014 has an excellent stabilization effect on organic pigments and carbon black pigments in solvent-borne, solvent-free and aqueous coatings and UV systems. The highly deflocculating effect of this wetting and dispersing additive makes it possible to formulate coating systems with excellent optical properties. The improvement in the color strength and transparency, combined with increased gloss and reduced haze, is particularly significant. In aqueous systems, DISPERBYK-2014 can be used for both resin-containing and resin-free grinds. Amines, co-solvents and surfactants can be added to resin-free grinds. DISPERBYK-2014 can be used in air-drying systems, 2 pack formulations, baking coatings and radical curing systems.

Recommended Use

General industrial coatings	■
Wood and furniture coatings	□
Marine and corrosion protection coatings	□
Automotive coatings	■
Architectural coatings	□
Floor coatings	■

■ especially recommended □ recommended

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Organic pigments: 15-40 %

Carbon blacks: 20-90 %

Incorporation and Processing Instructions

Wetting and dispersing additives should be added to the millbase. The additive should be homogenized in the resin, solvent, water or reactive thinner before the pigment is added.

Printing Inks and Inkjet Inks

Special Features and Benefits

DISPERBYK-2014 defloculates pigments by means of steric stabilization. The small particle size of the defloculated pigments increases the color strength and allows high levels of gloss to be achieved. Furthermore, transparency is increased and viscosity is reduced, which improves the flow characteristics and enables higher pigment loading.

Recommended Use

The additive is especially suitable for producing aqueous resin-free, stable pigment concentrates with a pigment content of 20-60 %. These pigment concentrates can be let down with standard aqueous resins, e.g. acrylate dispersions or water-soluble acrylic resins.

Recommended Levels

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

Organic pigments: 15-25 % for printing inks, 30-70 % for inkjet inks

Carbon blacks: 15-25 % for printing inks, 30-70 % for inkjet inks

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

Incorporation and Processing Instructions

DISPERBYK-2014 must be mixed only with water during the production of resin-free pigment concentrates. Only add the pigments once the additive has been uniformly distributed.



Additive Guide



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