

DISPERBYK-190

VOC and solvent-free wetting and dispersing additive for aqueous coating systems, printing inks and adhesives. Standard additive for binder-free pigment concentrates. Suitable for all pigments.

Product data

Composition

Aqueous solution of polyether-modified styrene-maleic anhydride copolymer

VOC-free (< 1500 ppm)

Typical properties

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

Density (20 °C): 1.06 g/cm³
Solvent: water
Acid value: 10 mg KOH/g
Amine value: 1 mg KOH/g

Storage and transportation

Product shelf life in unopened original packaging: 60 months
To be stored and transported at a temperature below 50 °C. Stir before use. Separation or turbidity may occur at temperatures below 0 °C. Warm to 20 °C and stir.

Applications

Printing inks

Special features and benefits

The additive deflocculates pigments by means of steric stabilization. As a result of the small particle sizes of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. The transparency is also increased and the viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended use

The additive is especially suitable for producing binder-free, stable pigment concentrates with a pigment content of 30-60 %. These pigment concentrates can be let down with standard aqueous binders, for example acrylate dispersions or water-soluble acrylic resins.

Recommended levels

Amount of additive (as supplied) based on:

Titanium dioxide: 10-12 %
Organic pigments: 15-50 %
Carbon black: 15-50 %

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

Incorporation and processing instructions

Grinding should only take place in water (without binders, amines or co-solvents). Mix the additive with water and only add the pigments once the additive has been homogeneously and uniformly distributed.

Coatings industry**Special features and benefits**

Special features and benefits The additive deflocculates pigments by means of steric stabilization. As a result of the small particle sizes of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. Transparency and hiding power are also increased and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended use

Architectural coatings	■
Wood and furniture coatings	■
Automotive OEM coatings	■
Automotive refinish coatings	■
Can coatings	■
Marine and protective coatings	■
Leather finishes	■

■ especially recommended □ recommended

The additive is recommended for producing binder-free, stable pigment concentrates for aqueous coatings without flooding/floating.

Recommended levels

Additive (as supplied) based on:

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

Grinding should only take place in water (without binders, amines or co-solvents). Mix the additive with water and only add the pigments once the additive has been homogeneously and uniformly distributed.

Adhesives and sealants

Special features and benefits

Special features and benefits The additive improves the dispersion quality of fillers and pigments. By means of steric stabilization it deflocculates the pigments and fillers and reduces viscosity. In this way, the flow characteristics are also improved and higher pigment loading is possible

Recommended use

Aqueous adhesives	<input checked="" type="checkbox"/>
Epoxy systems	<input type="checkbox"/>
PUR systems	<input type="checkbox"/>

☒ especially recommended ☐ recommended

The additive is particularly recommended if the fillers and pigments are to be dispersed directly in water without binders.

Recommended levels

Amount of additive (as supplied) based on:

Inorganic pigments:	20-30 %
Titanium dioxide:	10-12 %
Organic pigments:	30-75 %
Carbon black:	130-150 %
Fillers:	1-3 %

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

Incorporation and processing instructions

Dispersion should only take place in water (without binders, amines or co-solvents). Mix the additive with water and only add the fillers and pigments once the additive has been homogeneously and uniformly distributed.



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