DISPERBYK-190 BF

VOC- and solvent-free wetting and dispersing additive for aqueous printing inks, coating systems and adhesives. Standard additive for resin-free pigment concentrates. Suitable for all pigments. Biocide-free version of DISPERBYK-190.

Product data

Composition
Aqueous solution of polyether-modified styrene-maleic anhydride copolymer

VOC-free (< 1500 ppm)
Biocide-free

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
Non-volatile matter (10 min, 150 °C):	40 %
Solvent:	water
Acid value:	10 mg KOH/g
Amine value:	1 mg KOH/g

Storage and transportation
Product shelf life in unopened original packaging: 24 months
Separation or turbidity may occur at temperatures below 0 °C. Warm to 20 °C and stir. To be stored and transported at a temperature below 50 °C.

Applications

Printing inks

Special features and benefits
The additive deflocculates pigments by means of steric stabilization. As a result of the small particle size of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. Furthermore, transparency is increased and viscosity is reduced, which improves the flow behavior and enables higher pigment loading.

Recommended use
The additive is especially suitable for producing resin-free, stable pigment concentrates with a pigment content of 30–60 %. These pigment concentrates can be let down with standard aqueous resins, e.g. acrylate dispersions or water-soluble acrylic resins.

Recommended levels

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 resins, amines, or cosolvents). 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
The additive deflocculates pigments by means of steric stabilization. As a result of the small particle size of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. Transparency and hiding power also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended use

General industrial coatings	■
Automotive OEM coatings	■
Automotive refinish coatings	■
Coil coatings	■
Architectural coatings	■
Wood and furniture coatings	■
Marine and protective coatings	■
Leather coatings	■
Can coatings	□

■ especially recommended □ recommended

The additive is particularly recommended for producing resin-free, stable pigment concentrates for non-floating aqueous coatings.

Recommended levels
Amount of additive (as supplied) based upon 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
Grinding should only take place in water (without resins, amines, or cosolvents). 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
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 a higher filler content as well as higher pigment loading are possible.

Recommended use

Aqueous adhesives	■
Epoxy systems	□
PUR systems	□

■ especially recommended □ recommended

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

Recommended levels

Amount of additive (as supplied) based on pigment or filler:

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 resins, amines or cosolvents). 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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