

DISPERBYK-199

VOC-free wetting and dispersing additive for stabilizing organic and inorganic pigments in aqueous coatings, adhesives, pigment concentrates and care products.

Product data

Composition

Aqueous solution of modified styrene-maleic anhydride copolymer

VOC-free (< 1500 ppm)
 APEO-free

Typical properties

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

Density (20 °C):	1.11 g/cm ³
Non-volatile matter (20 min, 150 °C):	40 %
Solvent:	water

Storage and transportation

Product shelf life in unopened original packaging: 36 months
 Separation or turbidity may occur. In this case, warm to 20 °C and stir.

Applications

Coatings industry

Special features and benefits

DISPERBYK-199 uses electrosteric stabilization to deflocculate the pigments. 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 are also increased and viscosity is reduced. In this way, the flow characteristics are also improved and a higher pigment load is possible. The additive represents an alternative to the polyelectrolyte-based and high molecular weight wetting and dispersing additives that are usually used in aqueous systems and is suitable for both inorganic and organic pigments.

Recommended use

DISPERBYK-199 is recommended for aqueous coatings (PVK 16-35%) and highly filled pigment concentrates.

Architectural coatings	<input checked="" type="checkbox"/>
Marine and protective coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input type="checkbox"/>

especially recommended recommended

Recommended levels

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

Titanium dioxide:	2.5-7.5 %
Inorganic pigments:	10-30 %
Organic pigments:	37-100 %
Carbon black:	75-125 %

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

Incorporation and processing instructions

For optimum performance, the additive should be added to the millbase before the incorporation of the pigments.

Adhesives and sealants**Special features and benefits**

DISPERBYK-199 deflocculates fillers and pigments through electrosteric stabilization. In filled adhesive systems, the viscosity is considerably reduced, enabling easier processing or a higher filler loading. It represents an alternative to the polyelectrolyte-based and high molecular weight wetting and dispersing additives that are usually used in aqueous systems and is particularly suitable for inorganic fillers and pigments. DISPERBYK-199 is recommended for all aqueous dispersion adhesives and sealants.

Recommended levels

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

Titanium dioxide:	1.5-2 %
Inorganic pigments:	2-10 %
Fillers:	0.5-1 %

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

Incorporation and processing instructions

For optimum performance, the additive should be added to the system before the incorporation of the fillers and pigments.

Home care and I&I**Special features and benefits**

The additive improves the dispersion quality of abrasives and other insoluble solids. It ensures deflocculation of the insoluble solids through steric stabilization, and has a positive influence on rheological behavior. This enables a higher solid content.

Recommended use

The additive is particularly recommended if the solids are to be dispersed directly in the aqueous medium.

Recommended levels

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

Inorganic pigments:	10-30 %
Titanium dioxide:	2.5-7.5 %
Organic pigments:	37-100 %
Carbon black:	75-125 %

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

Incorporation and processing instructions

For optimum performance, the additive should be added slowly to the shear-stable formulation whilst stirring. The solids should only be added once the additive has been homogeneously and uniformly distributed.



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