DISPERBYK-199

VOC-free wetting and dispersing additive for aqueous coatings and adhesives as well as pigment concentrates for stabilizing organic and inorganic pigments.

Product Data

Composition
Solution of a copolymer with pigment-affinic groups

VOC-free (< 1500 ppm)
Contains no alkylphenol ethoxylates.

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

Density (68 °F):	9.27 lbs/US gal
Non-volatile matter (20 min., 302 °F):	40 %
Solvents:	Water

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation
Separation or turbidity may occur at temperatures below 0 °C (0 °F). Warm to 20 °C (68 °F) and mix well.

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 (PVC 16-35 %) and highly filled pigment concentrates.

Architectural coatings	■
Protective coatings	■
Wood and furniture coatings	□
Leather coatings	□

■ especially recommended □ recommended

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

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

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

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

Adhesives & 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 dioxides: 1.5-2 %
Inorganic pigments: 2-10 %
Filler: 0.5-1 %

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

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

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