DISPERBYK-2080

Wetting and dispersing additive to stabilize titanium dioxide, inorganic pigments, and fillers in a variety of aqueous systems without impacting the water, corrosion, or stain resistance.

Product data

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

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

Density (20 °C):	1.04 g/cm³
Active substance:	30 %
Solvent:	water

Storage and transportation
Product shelf life in unopened original packaging: 18 months
To be stored and transported between 5 °C and 40 °C.

Applications

Coatings industry

Special features and benefits

- Hydrophobic character for minimal water absorption and consequently high corrosion and stain resistance
- Sufficiently hydrophilic for effective use in a wide range of water-based coating systems
- Electrosteric stabilization for effective deflocculation of pigments and fillers
- Reduction of millbase viscosity
- Increase in gloss

Recommended use

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

■ especially recommended □ recommended

Particularly suitable for water-based anti-corrosion primers and direct-to-metal coatings, as well as white pigmented wood and furniture topcoats with high stain resistance requirements.

Recommended levels
Amount of additive (as supplied) based on:

Inorganic pigments: 10-27 %
Titanium dioxide: 3-6 %
Fillers: 3-6 %

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 must be incorporated into the millbase. Simply pre-mix the water and additive. In all cases, only add the pigments or fillers when the additive has been thoroughly distributed.

Adhesives and sealants

Special features and benefits

- Hydrophobic character for minimal water absorption and consequently high corrosion and stain resistance
- Improved dispersion quality of fillers and pigments
- Significant reduction in viscosity of filled systems through deflocculation of fillers and pigments
- Easier processing and improved flow properties due to reduced viscosity
- Higher loading possible due to reduced viscosity

Recommended use
For aqueous adhesives based on acrylate, polyvinylacetate, and polyurethane.

Recommended levels
Amount of additive (as supplied) based on:

Inorganic pigments: 0.5-1 %
Titanium dioxide: 1.5-2 %
Fillers: 0.05-1 %

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 must be added to the system before incorporating pigments and fillers.

Construction chemicals

Special features and benefits

- Hydrophobic character for minimal water absorption resulting in enhanced water resistance
- Improved dispersion of very fine fillers and pigments, even at low dosage levels
- Significant reduction in viscosity of filled systems at higher dosage levels
- Suitable for stable and flowable applications, depending on the dosage level

Recommended use

For aqueous construction chemicals based on acrylate, polyvinylacetate, and polyurethane.

Recommended levels

Amount of additive (as supplied) based on:

Inorganic pigments:	2-10 %
Titanium dioxide:	1.5-2 %
Fillers:	0.05-1 %

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

Incorporation and processing instructions

The additive should be thoroughly distributed before adding the fillers and pigments.

Leather finishes and coated fabrics

Special features and benefits

- Hydrophobic character for minimal water absorption and consequently high stain resistance
- Improved dispersion quality of matting agents and inorganic pigments
- Reduction in millbase viscosity
- Easy processing and improved flow properties due to reduced viscosity

Recommended use

For aqueous leather finishes and coated fabrics based on acrylates and polyurethanes.

Recommended levels

Amount of additve (as supplied) based on:

Inorganic pigments:	2-10 %
Matting agents:	1-2 %

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 must be incorporated into the millbase before the addition of pigments or matting agents. Simply pre-mix the water and additive. In all cases, only add the pigments or mattings agents when the additive has been thoroughly distributed.

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