

# DISPERBYK-191

VOC- and solvent-free wetting and dispersing additive for aqueous coatings, adhesives and care products. Suitable for binder-free and binder-containing pigment concentrates. Particularly optimized for emulsion systems.

## Product data

### Composition

Polyether-modified polyacrylate salt

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): 1.07 g/ml

Acid value: 30 mg KOH/g

Amine value: 20 mg KOH/g

## Applications

### 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 higher pigment loading is possible.

#### Recommended use

The additive is particularly recommended if the fillers and pigments are to be dispersed directly in the aqueous binder.

#### Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 6–13 %

Titanium dioxide: 4–7 %

Organic pigments: 19–50 %

Carbon black: 30–90 %

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

For optimum performance, the additive should be added slowly to the shear-stable dispersion whilst stirring. Only add the fillers and 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 sizes 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

Architectural coatings	■
Wood and furniture coatings	■
Leather finishes	■

■ especially recommended    □ recommended

The additive is recommended for producing binder-free and binder-containing pigment grinds for aqueous systems.

### Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 6–13 %  
Titanium dioxide: 4–7 %  
Organic pigments: 19–50 %  
Carbon black: 30–90 %

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 (whilst stirring) to the grinding resin, the co-solvent blend or the shear-stable dispersion. In systems without binders, the additive is simply mixed with the water. Only add the pigments once the additive has been homogeneously and uniformly distributed.

## Home Care and I&I

### Special features and benefits

The additive improves the dispersion of scouring agents and other insoluble solids. It ensures deflocculation of the particles 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 insoluble solids are to be dispersed directly in the aqueous medium.

**Recommended levels**

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	6–13 %
Titanium dioxide:	4–7 %
Carbon black:	30–90 %
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**

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.



**Your local  
contact**

**BYK-Chemie GmbH**

Abelstraße 45  
46483 Wesel  
Germany  
Tel +49 281 670-0  
Fax +49 281 65735

**info@byk.com**  
**www.byk.com**

ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK-DYNWET®, BYK-MAX®, BYK-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAX®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, NANOBYK®, OPTIBENT®, OPTIGEL®, PURABYK®, RECYCLOBYK®, RHEOBYK®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® are registered trademarks of the BYK group.

The information contained herein is based on our current knowledge and experience. No warranties, guarantees and/or assurances of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. Any information about suitability, use or application of the products is non-binding and does not constitute a commitment regarding the products' properties, use or application. Contractual terms and conditions, in particular agreed product specifications, always take precedence. We recommend that you test our products in preliminary trials to determine their suitability for your intended purpose prior to use. We reserve the right to make any changes and to update the information herein without notice.