

# DISPERBYK-191

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

## Product Data

### Composition

Copolymer with pigment affinic groups

VOC-free  
(<1500 ppm)

### Typical Properties

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

Amine value: 20 mg KOH/g  
Acid value: 30 mg KOH/g  
Density (68 °F): 8.93 lbs/US gal

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

## Applications

### Adhesives

#### 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 dioxides: 4-7 %  
Organic pigments: 19-50 %  
Carbon blacks: 30-90 %  
Fillers: 1-3 %

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

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Data Sheet  
Issue 10/2012

### 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

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 dioxides: 4-7 %  
Organic pigments: 19-50 %  
Carbon blacks: 30-90 %

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 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.

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