

# DISPERBYK-2019

VOC and solvent-free wetting and dispersing additive for aqueous paint systems, floor coatings, printing inks, inkjet inks, and pigment concentrates.

## Product data

### Composition

Solution of a copolymer with pigment-affinic groups

VOC-free (< 1500 ppm)  
Biocide-free

### Typical properties

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

Density (20 °C): 1.09 g/ml  
Active substance: 52 % in water  
Amine value: 22 mg KOH/g  
Delivery form: clear to slightly turbid liquid

### Storage and transportation

Separation or turbidity may occur during storage or transportation at temperatures below 0 °C.  
Warm to 20 °C and mix well.

## Applications

### Coatings industry

#### Special features and benefits

DISPERBYK-2019 uses electrosteric stabilization to deflocculate the pigments. The additive is particularly suitable for the production of binder- and VOC-free pigment concentrates for aqueous coatings. DISPERBYK-2019 has been specially developed for inorganic pigments and transparent iron oxides. As a result of the small particle size of the deflocculated pigments, high levels of transparency can be achieved. Furthermore, the viscosity is greatly reduced, which enables a higher pigment content to be achieved. DISPERBYK-2019 can also be used in alkaline systems.

#### Recommended use

Industrial coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input checked="" type="checkbox"/>
Marine coatings	<input checked="" type="checkbox"/>
Protective coatings	<input type="checkbox"/>
Automotive coatings	<input type="checkbox"/>
Architectural coatings	<input type="checkbox"/>
Floor coatings	<input type="checkbox"/>

☒ especially recommended ☐ recommended

**Recommended levels**

Additive (as supplied) based on the pigment:

Transparent iron oxides: 20–60 %  
Inorganic pigments: 5–40 %  
Titanium dioxide: 6–8 %

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.

**Printing Inks and Inkjet Inks****Special features and benefits**

DISPERBYK-2019 uses electrosteric stabilization to deflocculate the pigments. The additive is particularly suitable for the production of binder- and VOC-free pigment concentrates and slurries for aqueous printing inks and inkjet inks. DISPERBYK-2019 has been specially developed for the stabilization of inorganic pigments such as titanium dioxide, transparent iron oxides, and ceramic pigments. The highly deflocculating effect of DISPERBYK-2019 ensures high color strength and gloss, low haze values, and a low millbase viscosity. Pigment concentrates manufactured using DISPERBYK-2019 are very storage-stable.

**Recommended use**

Aqueous printing inks and pigment concentrates	<input type="checkbox"/>
Aqueous inkjet inks	<input checked="" type="checkbox"/>

☒ especially recommended    ☐ recommended

**Recommended levels**

Additive (as supplied)  
in %

	Printing inks	Inkjet inks
Titanium dioxide	1–5	5–20
Transparent iron oxides		20–60
Other inorganic particles		10–100 (depending on the size and chemical nature of the particle)

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.



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contact**

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This issue replaces all previous versions.