

DISPERBYK-195

VOC-free wetting and dispersing additive for aqueous printing inks, inkjet inks, and coating systems.

Product data

Composition

Alcohol ethoxylates

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):	1.04 g/ml
Non-volatile matter (10 min, 150 °C):	35 %
Solvents:	water
Acid value:	2 mg KOH/g
Amine value:	< 1 mg KOH/g

Storage and transportation

Stir before use. Separation or turbidity may occur at temperatures below 0 °C. Warm to 20 °C and mix well.

Applications

Printing inks

Special features and benefits

The additive deflocculates pigments by means of steric stabilization. The small particle size of the deflocculated pigments increases the color strength and allows high levels of gloss to be achieved. Furthermore, transparency is increased and viscosity is reduced. The amounts required are low. Even at low dosages of DISPERBYK-195, the mill base viscosity is strongly reduced, which enables the production of cost-effective highly filled pigment concentrates with good flow properties. The additive also reduces the tendency to foam, which is often observed when using grinding resins, and improves the colorant acceptance.

Recommended use

DISPERBYK-195 is particularly recommended for the production of resin-containing pigment concentrates that are used in aqueous gravure, flexographic, and screen printing inks.

Recommended levels

Amount of additive (as supplied) based upon pigment:

Titanium dioxide: 1–3 %
Organic pigments: 4–6 %
Carbon black: 4–6 %

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 should be added slowly (whilst stirring) to the grinding resin. Only add the pigments once the additive has been uniformly distributed.

Inkjet inks**Special features and benefits**

The additive deflocculates pigments by means of steric stabilization. The small particle size of the deflocculated pigments increases the color strength and allows high levels of gloss to be achieved. Furthermore, transparency is increased and viscosity is reduced.

Recommended use

DISPERBYK-195 is recommended for use in aqueous inkjet inks to stabilize PY150 and other organic pigments as well as carbon black in resin-free pigment concentrates.

Recommended levels

50–200 % additive (as supplied) based on organic pigments and carbon blacks.

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 mill base before the incorporation of the pigments.

Coatings industry**Special features and benefits**

DISPERBYK-195 deflocculates pigments by means of steric stabilization. Thus, high levels of gloss can be achieved and the color strength is improved. Furthermore, transparency and hiding power are increased and viscosity is reduced. In addition, it optimizes the flow behavior and allows the production of highly filled pigment concentrates.

The additive can also be used in combination with other additives, such as DISPERBYK-199. Thus, it offers outstanding viscosity reduction and improved color strength development.

Recommended use

Architectural coatings	■
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■ especially recommended □ recommended

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	10–30 %
Titanium dioxide:	2.5–7.5 %
Organic pigments:	37–100 %
Carbon black:	75–125 %

When used as a co-wetting and dispersing additive, DISPERBYK-195 replaces the combination partner by 30–50 % in the non-volatile matter.

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 mill base before the incorporation of the pigments.



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This issue replaces all previous versions.