DISPERBYK-193

Wetting and dispersing additive for aqueous printing inks. Particularly recommended for binder-containing pigment concentrates.

Product Data

Composition
Solution of a copolymer with pigment-affinic groups

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

Density (20 °C):	1.05 g/ml
Non-volatile matter (10 min., 150 °C):	40 %
Solvents:	Water

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation
To be stored and transported at a temperature below 40 °C. Separation or turbidity may occur.
Mix well before use. Do not exceed 50 °C.

Special Note
The appearance of DISPERBYK-193 varies between clear and opaque. This does affect the performance of the product and is not part of the specification.

Applications

Printing Inks

Special Features and Benefits
The additive deflocculates pigments by means of steric stabilization. As a result of the small particle size of the deflocculated pigments, high levels of gloss can be achieved and the color strength, transparency, and storage stability are improved. The millbase viscosity is greatly reduced even with a low dosage of DISPERBYK-193. This makes it possible to produce highly filled pigment concentrates with good flow properties.

Recommended Use
DISPERBYK-193 is particularly recommended for the production of binder-containing pigment concentrates that are used in aqueous gravure, flexographic and screen printing inks. The amounts required are low and facilitates the production of cost-effective, highly filled pigment concentrates with good flow properties. The additive reduces the tendency to foam which is often observed when using grinding resins, and it improves the colorant acceptance. As a defoamer in the millbase, the combination of BYK-012 and BYK-017 (1:1) has proven to be very effective (dosage 0.6 % based on the total formulation).

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Titanium dioxides: 1-3 %
Organic pigments: 4-6 %
Carbon blacks: 4-6 %

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 or to the shear-stable dispersion. Only add the pigments once the additive has been uniformly distributed.

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