BYKJET-9151

Wetting and dispersing additive for solvent-borne, aqueous and UV-curing inkjet inks

Product Data

Composition
Structured copolymer with pigment affinic groups

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

Amine value:	18 mg KOH/g
Acid value:	8 mg KOH/g
Density (20 °C):	1.1 g/ml
Non-volatile matter (30 min., 150 °C):	> 98.5 %
Flash point:	> 150 °C

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.

Applications

Inkjet Inks

Special Features and Benefits
The additive enhances pigment wetting and improves optical properties (color strength, gloss, haze and transparency) because of its outstanding pigment stabilization. It not only reduces the level of viscosity in pigment concentrates and final inkjet inks, but also prevents thixotropy.

The additive can achieve long-term storage stability without a viscosity shift. It provides equal electrical charge to the pigment particles, and thus prevents possible co-flocculation of particles that are not equally charged. Excellent pigment deflocculation leads to small particle size and narrow particle size distribution, thereby significantly reducing filtration time.

BYKJET-9151 may be used in all types of aqueous, solvent-borne and UV-curing inkjet inks. It can stabilize most pigments commonly used in inkjet inks.

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Data Sheet
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Recommended Use

Aqueous inkjet inks	■
Solvent-borne inkjet inks	■
UV-curing inkjet inks	■

■ particularly recommended

Recommended Levels

% additive (as supplied) based upon
organic pigments: 20-60 %
carbon black: 30-100 %

The dosage levels are indicated for the purpose of orientation. Optimal dosage levels are determined through series of tests.

Incorporation and Processing Instructions

Wetting and dispersing additives should be added to the millbase. This way, they can achieve their full effectiveness. Binder and solvents/water/reactive diluents are premixed with the additive while stirring, and should be homogenized before the pigment is added.

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