DISPERBYK-2013

Solvent-free wetting and dispersing additive for 100 % UV systems and solvent-borne and water-borne UV systems for printing inks and coatings.

Product Data

Composition
Structured copolymer with pigment affinic groups

Solvent-free

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):	1.10 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

Printing Inks

Special Features and Benefits
Based on its balanced product polarity and 100 % delivery form, DISPERBYK-2013 achieves excellent stabilization, in particular in 100 % UV systems and particularly of organic pigments and carbon black pigments. In so doing, DISPERBYK-2013 has an impressive, effective viscosity-reducing effect, simultaneously reducing thixotropic flow behavior. The long-term storage stability of printing inks formulated using DISPERBYK-2013 is also significantly improved. The highly deflocculating effect of this wetting and dispersing additive makes it possible to formulate printing inks with superior optical properties. The improvement in the color strength and transparency is particularly significant.

Recommended Use

UV-curable printing inks and pigment concentrates	■

■ particularly recommended

Recommended Levels
Additive dosage as supplied based on pigment:

Organic pigments: 15-25 %
Carbon blacks: 15-25 %

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

Incorporation and Processing Instructions
The wetting and dispersing additives should be incorporated into the millbase. The additive should be premixed in the binder or solvent before the pigment is added.

Coatings Industry

Special Features and Benefits
Based on its balanced product polarity and 100 % delivery form, DISPERBYK-2013 achieves excellent stabilization in 100 % and solvent-borne and aqueous UV systems, in particular excellent stabilization of organic pigments and carbon black pigments. In so doing, DISPERBYK-2013 has an impressive, effective viscosity-reducing effect, simultaneously reducing thixotropic flow behavior. The long-term storage stability of coating systems formulated using DISPERBYK-2013 is also significantly improved. The highly deflocculating effect of this wetting and dispersing additive makes it possible to formulate coating systems with superior optical properties. The improvement in the color strength and transparency, combined with increased gloss and reduced haze is particularly significant.

Recommended Use

Industrial coatings	■
Wood and furniture coatings	■

■ particularly recommended

Recommended Levels
Additive dosage as supplied based on pigment:

Inorganic pigments: 2-8 %
Organic pigments: 15-35 %
Carbon blacks: 30-60 %

Incorporation and Processing Instructions
The wetting and dispersing additives should be incorporated into the millbase. The additive should be homogenized in the binder, solvent or reactive thinner before the pigment is added.

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