DISPERBYK-2030

High molecular weight wetting and dispersing additive for solvent-free UV-curable printing inks and inkjet inks. Suitable for all pigment types.

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):	1.04 g/ml
Active substance:	80 %
Solvents:	propoxylated neopentyl glycol diacrylate (PONPGDA)
Acid value:	5 mg KOH/g
Amine value:	13 mg KOH/g

Storage and transportation
To be stored and transported at a temperature below 40 °C. Protect the product from direct sunlight.

Applications

Inkjet inks

Special features and benefits
High molecular weight wetting and dispersing additive for solvent-free UV-curable inkjet inks. The additive improves pigment wetting and, thanks to its outstanding steric stabilization of the pigments, it also improves the optical properties of the systems (optical density, color strength, gloss, haze, transparency). The viscosity of the pigment concentrates and the finished inkjet inks is reduced and thixotropy is prevented. A long-term stability without changing the viscosity is achieved. DISPERBYK-2030 also generates a uniform electrical charge across the pigment particles, thereby preventing possible co-flocculation of particles that are not equally charged. The excellent deflocculation causes a very small particle size and a narrow particle size distribution, which achieves short filtration times. The water and alcohol resistance of the cured film is improved, thanks to the hydrophobic structure of the product.

Recommended use
DISPERBYK-2030 is suitable for all solvent-free, UV-curable inkjet inks. It stabilizes the majority of the pigments that are usually used in inkjet inks.

Recommended levels
30–90 % additive (as supplied) based on organic pigments.
40–100 % additive (as supplied) based on carbon black pigments.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions
Wetting and dispersing additives should generally be added to the millbase. Only in this way can they be fully effective. Pre-mix the millbase with resin and reactive thinners and then gradually pour in the additive while stirring. Add the pigments only after the additive has been thoroughly distributed.

Printing inks

Special features and benefits
High molecular weight wetting and dispersing additive for 100-% UV flexographic and offset inks as well as pigment concentrates. The additive achieves an outstanding stabilization, particularly of organic pigments and carbon black pigments. DISPERBYK 2030 has an impressive viscosity-reducing effect. This substantially improves the long-term stabilization. The highly deflocculating effect of the additive enables an improved color strength and transparency of the pigments. The water resistance in UV printing inks is increased.

Recommended use
DISPERBYK 2030 is suitable for all solvent-free, UV-curable printing inks. It stabilizes most organic pigments.

Recommended levels
10–25 % 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
Wetting and dispersing additives should generally be added to the millbase. Only in this way can they be fully effective. Pre-mix the millbase with resin and reactive thinners and then gradually pour in the additive while stirring. Add the pigments only after the additive has been thoroughly distributed.

Download on the App Store
GET IT ON Google Play

Your local contact

BYK-Chemie GmbH
Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ADD-MAX®, ADD-VANCE®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK-AQUAGEL®, BYK®-DYNWET®, BYK-MAX®, BYK®-SILCLEAN®, BYKANOL®, BYKCARE®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKONITE®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, POLYAD®, PRIEX®, PURABYK®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL® and VISCOBYK® **are registered trademarks of the BYK group.**

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.

This issue replaces all previous versions.