

DISPERBYK-2013

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

Product data

Composition

Styrene-maleic anhydride copolymer

Solvent-free

Typical properties

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

Density (20 °C):	1.10 g/ml
Non-volatile matter (30 min, 150 °C):	> 97.0 %
Flash point:	> 150 °C
Acid value:	8 mg KOH/g
Amine value:	18 mg KOH/g

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 for organic pigments and carbon black pigments. In doing so, DISPERBYK-2013 has an impressive, effective viscosity-reducing effect, simultaneously lowering 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	<input checked="" type="checkbox"/>
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especially recommended recommended

Recommended levels

Additive (as supplied) based on the pigment:

Organic pigments:	15–25 %
Carbon black:	15–25 %

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 be added to the millbase. The additive should be pre-mixed 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 for all types of pigments in solvent-free, solvent-borne and aqueous coatings as well as in UV systems, be it for single grind of highly-filled pigment pastes or for co-grinds. For organic pigments and carbon black pigments, in particular, DISPERBYK-2013 has an impressive, effective viscosity-reducing effect, simultaneously lowering thixotropic flow behavior. For high-solid or solvent-free systems, DISPERBYK-2013 offers above-average viscosity reduction. 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 excellent optical properties. The improvement in the color strength and transparency, combined with increased gloss and reduced haze, is particularly significant. DISPERBYK-2013 can be used in air-drying systems, 2K formulations, baking coatings and radical curing systems.

Recommended use

Industrial coatings	<input checked="" type="checkbox"/>
Coil coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input checked="" type="checkbox"/>
Marine coatings	<input checked="" type="checkbox"/>
Protective coatings	<input checked="" type="checkbox"/>
Automotive coatings	<input type="checkbox"/>
Architectural coatings	<input type="checkbox"/>
Floor coatings	<input type="checkbox"/>
Can coatings	<input type="checkbox"/>

especially recommended recommended

Recommended levels

Additive (as supplied) based on the pigment:

Inorganic pigments: 2–10 %

Organic pigments: 15–35 %

Carbon black: 20–70 %

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 be added to the millbase. The additive should be homogenized in the binder, solvent or reactive thinner before the pigment is added.



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This issue replaces all previous versions.