DISPERBYK-2117

Solvent-free wetting and dispersing additive for solvent-borne and solvent-free pigment concentrates and printing inks (medium-polarity to polar). Main use is to disperse carbon blacks and phthalocyanine pigments.

Product Data

Composition
Block 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:	24 mg KOH/g
Density (20 °C):	1.03 g/ml
Non-volatile matter (10 min., 150 °C):	100 %

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

Coatings and Printing Inks

Special Features and Benefits
DISPERBYK-2117 deflocculates pigments and stabilizes them by means of steric hindrance. The deflocculating property of the additive results in increased gloss, color intensity, transparency or hiding power and a reduced mill base viscosity. DISPERBYK-2117 is recommended for use in pigment concentrates and solvent-borne printing inks, particularly for medium-polarity to polar flexographic and gravure printing inks based on alcohol-soluble cellulose nitrates. Main use is to disperse carbon blacks and phthalocyanine pigments (blue and green). BYK-SYNERGIST 2102 supports the effect of DISPERBYK-2117 with regard to the color strength development and the flow behavior.

Recommended Use

Pigment concentrates	■
Printing inks	■
Industrial coatings	□
Automotive coatings	□

■ especially recommended □ recommended

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	5-10 %
Titanium dioxides:	1-5 %
Organic pigments:	20-40 %
Carbon blacks:	10-75 %

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

Incorporation and Processing Instructions

Wetting and dispersion additives should generally be added to the millbase. Only in this way can they be fully effective. In the case of binder-free grinds, the solvent components of the millbase are pre-mixed with the additive whilst stirring and before the pigment is added. If the grinds contain binder, the binder, solvent, and additive should be homogenized prior to adding the pigment.

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