

DISPERBYK-2118

Solvent-free wetting and dispersing additive for solvent-borne and solvent-free pigment concentrates and printing inks (medium-polarity to non-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: 16.5 mg KOH/g
Density (20 °C): 1.01 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-2118 defloculates pigments and stabilizes them by means of steric hindrance. The defloculating property of the additive results in increased gloss, color intensity, transparency or hiding power, and a reduced mill base viscosity. DISPERBYK-2118 is recommended for use in pigment concentrates and solvent-borne printing inks, particularly for medium-polarity to non-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).

Recommended Use

Pigment concentrates	<input checked="" type="checkbox"/>
Printing inks	<input checked="" type="checkbox"/>
Industrial coatings	<input type="checkbox"/>
Automotive coatings	<input type="checkbox"/>

☒ 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.



Additive Guide



BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOSORB®, RECYCLOSTAB®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® 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 – Printed in Germany