

DISPERBYK-182

Wetting and dispersing additive for aqueous and solvent-borne coating systems and printing inks. For all-purpose pigment concentrates of non-polar through to aqueous systems.

Product Data

Composition

Solution of a high molecular weight 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: | 13 mg KOH/g |
| Density (20 °C): | 1.03 g/ml |
| Non-volatile matter (20 min., 150 °C): | 43 % |
| Solvents: | Methoxypropylacetate/methoxypropoxypropanol/butylacetate 7/4/4 |
| Flash point: | 38 °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.

Special Note

The surface treatment of some organic pigments can negatively influence the effectiveness of the additive. In these cases, tests with the untreated pigment of the same type may be successful.

Applications

Coatings Industry

Special Features and Benefits

DISPERBYK-182 deflocculates pigments by means of steric stabilization. As a result of the small particle size of the deflocculated pigments, high levels of gloss can be achieved and the color strength is optimized. Transparency and hiding power also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended Use

DISPERBYK-182 has a broad application spectrum and is suited to solvent-borne and aqueous systems. It is especially – alone or in combination with DISPERBYK-108 – used to produce particularly economical solvent-borne pigment concentrates.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

| | |
|---------------------|----------|
| Inorganic pigments: | 15-20 % |
| Titanium dioxides: | 4-5 % |
| Organic pigments: | 30-60 % |
| Carbon blacks: | 80-100 % |

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

Incorporation and Processing Instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments. Pre-mix the resin and solvent components of the millbase and then gradually let the DISPERBYK-182 flow in whilst stirring. Only add the pigments when the additive has been thoroughly distributed.

Printing Inks

Special Features and Benefits

DISPERBYK-182 deflocculates pigments by means of steric stabilization. As a result of the small particle size of the deflocculated pigments, high levels of gloss can be achieved and the color strength is optimized. Transparency and hiding power also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended Use

DISPERBYK-182 has a broad application spectrum and is suited to solvent-borne and aqueous systems. It is especially – alone or in combination with DISPERBYK-108 – used to produce particularly economical solvent-borne pigment concentrates.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

| | |
|--------------------|---------|
| Titanium dioxides: | 2.5-5 % |
| Organic pigments: | 7-13 % |
| Carbon blacks: | 7-13 % |

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

Incorporation and Processing Instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments. Pre-mix the resin and solvent components of the millbase and then gradually let the additive flow in whilst stirring. Only add the pigments when the additive has been thoroughly distributed.



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/additives

ACTAL®, ADJUST®, ADVITROL®, ALUFERSOL®, ANTI-TERRA®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CLAYTONE®, CLOISITE®, COPISIL®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, FULGEL®, FULMONT®, GARAMITE®, GELWHITE®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, NANOBYK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, PURE THIX®, RHEOCIN®, RHEOTIX®, RIC-SYN®, SILBYK®, TIXOGEL®, VISCOBYK®, Y-25®, and Greenability® are registered trademarks of BYK-Chemie. AQUACER®, AQUAMAT®, AQUATIX®, CERACOL®, CERAFAK®, CERAFLOUR®, CERAMAT®, CERATIX®, HORDAMER®, and MINERPOL® are registered trademarks of BYK-Cera.

SCONA® is a registered trademark of BYK Kometra.

This information is given to the best of our knowledge. Because of the multitude of formulations, production, and application conditions, all the above-mentioned statements have to be adjusted to the circumstances of the processor. No liabilities, including those for patent rights, can be derived from this fact for individual cases.

This issue replaces all previous versions – Printed in Germany