

DISPERBYK-140

Wetting and dispersing additive for solvent-borne coatings and pigment concentrates. Particularly suitable for stabilizing pigments in CN and TPA systems.

Product Data

Composition

Solution of polymeric phosphoric acid ester alkyl ammonium salt

Typical Properties

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

| | |
|--|----------------------|
| Amine value: | 76 mg KOH/g |
| Acid value: | 73 mg KOH/g |
| Density (20 °C): | 1.02 g/ml |
| Non-volatile matter (20 min., 150 °C): | 52 % |
| Solvents: | Methoxypropylacetate |
| Flash point: | 44 °C |

Storage and Transport

DISPERBYK-140 may adversely affect the coating adhesion to steel substrates in baking enamel systems. Before using in white baking enamel systems, check whether DISPERBYK-140 causes yellowing. In this case DISPERBYK-180 is recommended to stabilize titanium dioxide.

Applications

Coatings Industry

Special Features and Benefits

The additive deflocculates pigments by steric stabilization. As a result of the small particle sizes of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. In addition, the additive increases transparency with transparent pigments and hiding power with opaque pigments. Viscosity is reduced. In this way, the leveling properties are also improved and higher pigment loading is possible.

Recommended Use

DISPERBYK-140 is highly compatible with all standard coating binders. The use of DISPERBYK-140 to excellent effect in cellulose nitrate (CN) and thermoplastic acrylate resins (TPA) is a particular benefit.

DISPERBYK-140

Data Sheet
Issue 08/2021

Recommended Levels

Amount of additive (as supplied) based upon pigment:

| | |
|---------------------|---------|
| Inorganic pigments: | 15-20 % |
| Titanium dioxides: | 3-4 % |
| Organic pigments: | 30-80 % |
| Carbon blacks: | 40-80 % |

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 mill base before the addition of pigments.



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

ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-MAX®, 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®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOBYK®, RECYCLOSSORB®, RECYCLOSTAB®, RHEOBYK®, 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.