

DISPERBYK-174

Wetting and dispersing additive for solvent-borne coil coatings and industrial coatings. Suitable for acid-catalyzed and acid-curable coating systems. Particularly recommended for manufacturing highly filled pigment concentrates.

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.

Acid value:	22 mg KOH/g
Density (68 °F):	8.05 lbs/US gal
Non-volatile matter (20 min., 302 °F):	52.5 %
Solvents:	Xylene/Methoxypropylacetate/Butylacetate 3/2/1
Flash point:	88 °F

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

Check the pot life when using in 2-pack polyurethane systems.

Storage and Transportation

Separation or turbidity may occur at temperatures below 5 °C (41 °F). Warm to 20 °C (68 °F) and mix well.

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 transparency is increased in transparent pigments and the hiding power in opaque pigments. The viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

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Recommended Use

DISPERBYK-174 is recommended for industrial coatings and particularly for coil coatings. In addition to the required pigment stabilization, the additive also reduces the millbase viscosity, which enables the easy formulation of highly filled pigment concentrates.

Recommended Levels

Additive dosage as supplied based on pigment:

Titanium dioxide:	3-5 %
Inorganic pigments:	10-15 %
Organic pigments:	35-60 %
Carbon blacks:	70-100 %

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.



BYK USA Inc.
524 South Cherry Street
P.O. Box 5670
Wallingford, CT 06492
USA
Tel 203 265-2086
Fax 203 284-9158

cs.usa@byk.com
www.byk.com

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