BYK-P 104

Controlled flocculating wetting and dispersing additive for solvent-borne, medium-polarity to high-polarity coatings to prevent the flooding/floating of titanium dioxide in combination with colored pigments.

Product Data

Composition
Solution of a low molecular weight, unsaturated polycarboxylic acid polymer

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

Acid value:	180 mg KOH/g
Density (68 °F):	7.93 lbs/US gal
Non-volatile matter (10 min., 302 °F):	50 %
Solvents:	Xylene/diisobutyl ketone 9/1
Flash point:	82 °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.

Storage and Transportation
Separation or turbidity may occur during storage and transportation. Mix well before use. Warm to 30-60 °C (86-140 °F) and mix well.

Special Note
White spirit-based coating systems or those that are diluted with white spirit have a limited compatibility. The additive is also available solvent-free under the name BYK-P 105.

Applications

Coatings Industry

Special Features and Benefits
BYK-P 104 provides a targeted, controlled flocculation of the pigments. Bridges are built between the individual pigment particles, thereby creating three-dimensional networks. This controlled flocculation of the pigments primarily prevents flooding and floating along with settling and sagging. BYK-P 104 is particularly suited to medium-polarity to high-polarity coating systems to prevent the flooding and floating of titanium dioxide in combination with colored pigments. It has a limited compatibility with white spirit. In many cases, anticorrosive properties are improved when used in protective primers.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	3-10 %
Titanium dioxides:	0.5-2.5 %
Organic pigments:	10-20 %

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/additives