

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.



Additive Guide



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

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®, CERAFAX®, CERAFLOUR®, CERAMAT®, CERATIX®, HORDAMER®, and MINERPOL® are registered trademarks of BYK-Cera. SCONA® is a registered trademark of BYK Kometra. The information and data stated herein, although in no way guaranteed, are based upon tests and reports considered to be reliable and are believed to be accurate. No warranty, either expressed or implied, is made or intended. Use by a customer should be based upon their own investigations and appraisals. Any recommendation should not be construed as an invitation to use a material in infringement of patents. This issue replaces all previous versions – Printed in the USA