

## BYK-3931 P

Polyacrylate-based powder synergist with effective anti-cratering properties.  
Use in combination with standard leveling additives.

### Product Data

#### Composition

Polyacrylate, adsorbed on silicon dioxide

#### Typical Properties

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

Acrylate content:	63 %
Density (20 °C):	1.34 g/ml
Residue after calcining:	34 %
Supplied as:	Powder

### Applications

#### Powder Coatings

##### Special Features and Benefits

BYK-3931 P is an extremely effective anti-cratering additive, which is used in addition to standard leveling additives as a result of its synergistic effect. In demanding powder coating systems it boosts the effect of conventional leveling additives and, as a result of its high interfacial coating/air activity, it prevents craters, fish eyes and pinholes being formed. The result is smooth and perfect leveling.

##### Recommended Use

Recommended for powder coatings based on epoxides, polyester/epoxide, polyester, polyurethane and acrylate. BYK-3931 P is preferably also used in binder-rich formulations with increased susceptibility to cratering. The product is also suitable for UV-curing powder coating systems.

##### Recommended Levels

0.2-0.6 % additive (as supplied) based upon total formulation.

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

##### Incorporation and Processing Instructions

The additive is mixed with resin, hardener, pigments and other raw materials in a high-speed mixer and then extruded. Good dispersion of the additive by the extruder promotes gloss and leveling of the powder coating and prevents the formation of craters, fish eyes and seeds.



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**

ACTAL®, 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®, PAPERBYK®, PERMONT®, 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 – Printed in Germany