

# BYK-3951 P

Powdered processing additive with pigment-affinic groups for powder coatings. It improves pigment and filler loading and leveling. Particularly suited to inorganic pigments and fillers.

## Product Data

### Composition

High molecular-weight copolymer with pigment-affinic groups, adsorbed on silicon dioxide

### Typical Properties

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

Density (68 °F):	11.27 lbs/US gal
Active substance:	63 %
Residue after calcining:	34 %
Supplied as:	Powder

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

## Applications

### Powder Coatings

#### Special Features and Benefits

BYK-3951 P is a high molecular-weight copolymer with several pigment-affinic groups. These result in an improvement in the dispersion of solid particles (reduction in viscosity) and enable higher filler and pigment contents. Leveling (DOI – distinctness of image) is increased and use of this product results in better out-gassing of the powder coating and better substrate wetting.

#### Recommended Levels

0.5-2 % 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.

#### Special Note

The processing additive should always be used in combination with a standard leveling additive.

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