BYK-3932 P

PTFE-free surface additive for increasing surface slip and scratch resistance with an additional positive effect on leveling properties and substrate wetting, and an anti-cratering effect in powder coatings.

Product data

Composition
Mixture of surface-active polymers, adsorbed on silicon dioxide

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

Density (20 °C):	1.23 g/cm^3
Active substance:	63 %
Residue on ignition:	35 %
Delivery form:	powder

Applications

Powder coatings

Special features and benefits
BYK-3932 P provides increased surface slip (> 40 % compared to the blank sample) and increased scratch resistance. In contrast to typical PE/PTFE wax additives, it does not reduce gloss and can therefore also be used in high-gloss powder coatings. BYK-3932 P is a PTFE-free additive that, in addition to anti-cratering and leveling properties, also offers improved substrate wetting and avoids surface defects caused by impurities.

Recommended use
Recommended for powder coatings based on epoxy, polyester/epoxy, polyester, polyurethane, and acrylate.

Recommended levels
0.2–2.0 % additive (as supplied) based on the total formulation.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

The product 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 coatings and prevents the formation of craters, fish eyes, and seeds.

Up to a dosage of 1.0 %, it is recommended to combine BYK-3932 P with a standard leveling additive (e.g. in a 1:1 ratio). However, as a synergist, the product can also be used in any other ratio.

At dosages above 1.0 %, BYK-3932 P can be considered as a replacement for standard leveling additives. Such special cases may occur when maximum surface slip is required or to solve problems with strong substrate contamination.

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