BYK-P 104 S

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 lower molecular weight unsaturated acidic polycarboxylic acid polyester with polysiloxane copolymer

Typical properties

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

Density (20 °C):	0.95 g/cm³
Non-volatile matter (10 min, 150 °C):	50 %
Solvent:	xylene/diisobutylketone 9/1
Flash point:	28 °C
Acid value:	150 mg KOH/g
Delivery form:	liquid

Storage and transportation

Product shelf life in unopened original packaging: 60 months
Separation or turbidity may occur. To be stored and transported at a temperature below 50 °C. Warm to 30-60 °C and stir. Stir before use.

Applications

Coatings industry

Special features and benefits

BYK-P 104 S 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 S 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. BYK-P 104 S also contains a small quantity of a polysiloxane copolymer to improve flooding/floating behavior. This also prevents the formation of Bénard cells and improves the surface slip and leveling, and also the orientation of matting agents and aluminum pigments. In the majority of cases, it is no longer necessary to add the silicone additives which are usually required.

Recommended use

Floor coatings	■
Architectural coatings	□
Automotive OEM coatings	□
Automotive refinish coatings	□
General industrial coatings	□
Marine and protective coatings	□
Wood and furniture coatings	□

■ Especially recommended □ Recommended

Recommended levels

Amount of additive (as supplied) based on:

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

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

Incorporation and processing instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments.

Special note

White spirit-based coating systems or those that are diluted with white spirit have a limited compatibility. The additive is also available without the polysiloxane copolymer under the name BYK-P 104.

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