

Anti-Floating and Anti-Flooding Dispersing Agent**SURFADIOLS P-104S**

(Alternative to BYK P 104S)

SURFADIOLS P-104S is 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. Contains silicone to improve flooding/floating behavior.

Typical properties

Appearance	Brownish yellow liquid
Composition	Solution of unsaturated polycarboxylic acid polymer and polysiloxane copolymer
Solid content (120°C, 2h)	50%
Solvent	Xylene/diisobutyl ketone
Acid value	50-120mg KOH/g
Density (20°C), g/cm ³	0.800-0.950
Viscosity	20-100mpa.s

Special properties

SURFADIOLS P-104S 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. SURFADIOLS P-104S 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. SURFADIOLS P-104S 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.

Scope of application

Solvent-based coatings, inks and color pastes.

Incorporation and Processing Instructions

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

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.

Package and storage

The standard package is 190kg drums or 25kg pails. One pallet can load 4 drums or 18 pails.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

Mix well before use. Separation or turbidity may occur during storage and transportation. Warm to 30-60 °C.

When stored in an original unopened packaging, the product has a shelf life of 24 months from the date of manufacture.