

Wetting and Dispersing Additive

SURFADIOLS 180

(Alternative to Disperbyk-180)

SURFADIOLS 180 is a solvent-free wetting and dispersing additive for solvent-borne, solvent-free and aqueous coating systems, printing inks and adhesives for stabilizing inorganic pigments, in particular titanium dioxide.

Typical properties

Appearance	Light yellow liquid
Composition	Alkylol ammonium salt of a copolymer with acidic groups
Active substance content	100%
Amine value	80-110mg KOH/g
Acid value	38-68mg KOH/g
Density (20°C), g/cm ³	1.100-1.200
Viscosity	2000-5500mpa.s
Flash point	>100°C

Special properties

The additive defloculates pigments by means of steric stabilization. As a result of the small particle sizes of the defloculated pigments, high levels of gloss can be achieved and the color strength is improved. Transparency and hiding powder also increase and viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

The additive is solvent-free, so it can be used to reduce the viscosity of abrasive in low VOC and VOC free systems.

Scope of application

The additive is recommended for all aqueous, solvent-borne and solvent-free systems to stabilize inorganic pigments, specifically titanium dioxide.

Incorporation and Processing Instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments. The resin and solvent components of the millbase are pre-mixed and then the additive is slowly incorporated while stirring continuously. Do not add the pigments until the additive has been fully distributed.

Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 5% - 10%

Titanium dioxides: 1.5% - 2.5%

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 25kg plastic pails.

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

Mix well before use. Separation or turbidity may occur when the temperature is lower than 10°C. Heat to 30-40°C and stir. The quality of the product will not be affected.

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