DISPERBYK-115

Wetting and dispersing additive for solvent-borne industrial coatings, architectural coatings and pigment concentrates for pigment stabilization.

Product data

Composition
Solution of a modified polyurethane

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

Density (20 °C):	0.96 g/ml
Non-volatile matter (20 min, 150 °C):	52 %
Solvents:	Xylene/butylacetate/methoxypropylacetate 5/1/1
Flash point:	> 24 °C
Amine value:	25 mg KOH/g

Storage and transportation
Separation or turbidity may occur at temperatures below 10 °C. Heat to 20 °C and mix well.

Special note
The treatment of some organic pigments can negatively influence the effectiveness of the additive. In these cases, tests with the untreated pigment of the same type may be successful.

Applications

Coatings industry

Special features and benefits
The additive deflocculates pigments by steric stabilization. It also generates a uniform electrical charge in the pigment particles. The resulting repulsion effect and the steric stabilization prevent any coflocculation which leads to non-floating coloring in pigment blends. As a result of the small particle sizes of the deflocculated pigments, high levels of gloss can be achieved and the color strength is improved. In addition, the transparency is increased in transparent pigments and the hiding power in opaque pigments. The viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment loading is possible.

Recommended use
DISPERBYK-115 is recommended for industrial coatings and high-quality architectural coatings. As a result of its broad compatibility and the reduction in millbase viscosity it is well suited to the formulation of pigment concentrates.

Recommended levels

Additive dosage as supplied based on pigment:

Inorganic pigments:	10–25 %
Titanium dioxide:	2–4 %
Organic pigments:	25–65 %
Carbon black:	50–100 %

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. Pre-mix the resin and solvent components of the millbase and then gradually let the additive flow in whilst stirring. Only add the pigments when the additive has been thoroughly distributed.

Your local contact

BYK-Chemie GmbH
Abelstraße 45
46483 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com