

# DISPERBYK-2050

Wetting and dispersing additive for solvent-borne coating applications and pigment concentrates. Particularly suited to pigment pastes that do not contain binders.

## Product Data

### Composition

Solution of an acrylate copolymer with basic, pigment-affinic groups

### Typical Properties

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

Amine value:	30 mg KOH/g
Density (68 °F):	8.51 lbs/US gal
Non-volatile matter (20 min., 302 °F):	52 %
Solvents:	Methoxypropylacetate
Flash point:	79 °F

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

## 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 flood and float-free color 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 additive increases transparency in transparent pigments and hiding power in opaque pigments. Viscosity is reduced. In this way, the flow characteristics are also improved and higher pigment load is possible.

#### Recommended Use

DISPERBYK-2050 is suitable for medium to high polarity solvent-borne coating systems. It is recommended for the production of binder-containing and binder-free pigment concentrates and also for direct pigment grinding in the aforementioned systems.

### Recommended Levels

Additivmenge in Lieferform auf Pigment:

Inorganic pigments: 10-15 %  
Titanium dioxides: 3-5 %  
Organic pigments: 20-60 %  
Carbon blacks: 60-140 %

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

### Incorporation and Processing Instructions

For optimum performance, the additive must be incorporated into the millbase before addition of pigments. When grinding with binders, pre-mix the resin and solvent components of the mill base and then gradually let the additive flow in whilst stirring. Then add the pigment. When dispersing without binders, pre-mix the solvent components of the mill base with the additive whilst stirring, before adding the pigment. In binder-free pigment concentrates a higher boiling solvent should be used to prevent the concentrate drying out during storage. In all cases, only add the pigments when the additive has been thoroughly distributed.



Additive Guide



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