# DISPERBYK-185

Solvent-free wetting and dispersing additive for solvent-borne and aqueous industrial coatings as well as architectural coatings. Particularly suitable for glycol-free universal pastes.

## Product Data

**Composition**
Solution of modified polyurethane

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

| | |
|---|---|
| Amine value: | 17 mg KOH/g |
| Density (20 °C): | 1.13 g/ml |
| Non-volatile matter (60 min., 105 °C): | > 90 % |
| Solvents: | Polyethylene glycol |
| Flash point: | 118 °C |

**Storage and Transportation**
Separation or turbidity may occur at temperatures below 5 °C. Warm to 20 °C and mix well.

**Special Note**
The additive contains 52 % active substance and 48 % polyethylene glycol.

## Applications

### Coatings Industry and Leather Finishes

**Special Features and Benefits**
The additive deflocculates pigments by steric stabilization. The small particle size of the deflocculated pigments can achieve high levels of gloss and improved color strength. Transparency and hiding power also increase and viscosity is reduced. This also improves leveling and enables higher pigmentation levels.

**Recommended Use**
DISPERBYK-185 is solvent-free and is particularly suitable for the manufacture of alkylphenol-ethoxylate-free and solvent-free universal colorants used in aqueous, solvent-borne and solvent-free coatings.

## Recommended Levels

Amount of additive (as supplied) based upon pigment:

| | |
|---|---|
| Inorganic pigments: | 10-15 % |
| Titanium dioxides: | 3-6 % |
| Organic pigments: | 20-45 % |
| Carbon blacks: | 60-80 % |

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 added slowly to the grinding resin/co-solvent mixture or to the shear-stable emulsion while stirring. Add the pigments only once the additive has been properly dispersed.

## Special Note

If used in aqueous systems, a portion of the amine for pH control may be omitted due to the alkaline nature of the additive. Aqueous coatings may be critical with respect to their storage stability.
It is generally recommended to test the long-term stability of the entire system.

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