DISPERBYK-168 A

Wetting and dispersing additive for solvent-borne and solvent-free radiation-curable coatings, printing inks, and adhesives. DISPERBYK-168 A is the tin-free variant of DISPERBYK-168.

Product data

Composition
Solution of modified polyurethane

Aromatic-free
Tin-free

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

Density (20 °C):	1.12 g/ml
Non-volatile matter (20 min, 150 °C):	30 %
Solvents:	Dicarboxylic acid ester
Flash point:	91 °C
Amine value:	10.5 mg KOH/g

Storage and transportation
Mix well before use. Separation or turbidity may occur at temperatures below 5 °C. Warm 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, the use of an untreated pigment of the same type is recommended.

Applications

Coatings industry

Special features and benefits
Very effective and permanent deflocculation and stabilization of pigments through steric hindrance for:

- Higher gloss, improved color strength, transparency, or hiding power, respectively
- Significant reduction of mill base viscosity
- Flood- and float-free colors in pigment mixtures

Recommended use
The additive is recommended for radiation-curable general industrial coatings, wood and furniture coatings, can coatings, and coil coatings.

Recommended levels
Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	10–15 %
Titanium dioxide:	5–6 %
Organic pigments:	30–90 %
Carbon black:	70–140 %

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. 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.

Printing inks

Special features and benefits
Very effective and permanent deflocculation and stabilization of pigments through steric hindrance for:

- Higher gloss, improved color strength, transparency, or hiding power, respectively
- Significant reduction of mill base viscosity
- Reduced dispersion time
- Flood- and float-free colors in pigment mixtures

Recommended use
UV-curing flexo and offset printing inks

Recommended levels
Amount of additive (as supplied) based upon pigment:

Titanium dioxide:	2.5–5 %
Organic pigments, carbon blacks:	10–20 %

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. 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.

Adhesives and sealants

Special features and benefits
Very effective and permanent deflocculation and stabilization of pigments through steric hindrance for:

- Significant reduction of viscosity
- Higher transparency
- Reduced dispersion time

Recommended use
Stabilization of titanium dioxide, organic pigments and carbon blacks in radiation-curable adhesive systems

Recommended levels
Amount of additive (as supplied) based upon pigment:

Titanium dioxide:	2.5–5 %
Organic pigments, carbon blacks:	10–20 %

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. 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.

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