

DISPERBYK-2151

Highly branched wetting and dispersing additive for solvent-borne and solvent-free epoxy systems and other reactive systems.

Product Data

Composition

Higher molecular weight polyester

Typical Properties

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

Density (68 °F): 8.85 lbs/US gal

Non-volatile matter (10 min., 302 °F): 80 %

Flash point: 111 °F

Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Applications

Coatings Industry

Special Features and Benefits

DISPERBYK-2151 is recommended for use in solvent-borne and solvent-free epoxy systems and other reactive systems such as acid-catalyzed systems and two-pack polyurethanes. During the grinding of the pigments and fillers, the polyester side chains of the additive are compressed and the adhesive forces of the aminic group toward the pigment and filler surface are increased. The pigment-affinic group is then adsorbed onto the pigments and fillers, while the polyester side chains still shield the aminic group from the epoxy resin. This results in a significant reduction in viscosity, also in solvent-free formulations, and no undesirable interactions with the binder; thereby achieving a long-term storage stability. The wetting and deflocculation of solids is outstanding. DISPERBYK-2151 is broadly compatible and has no negative influence on corrosion resistance, yellowing resistance and adhesion to metal.

Recommended Use

Industrial coatings	<input checked="" type="checkbox"/>
Wood and furniture coatings	<input checked="" type="checkbox"/>
Protective coatings	<input checked="" type="checkbox"/>
Automotive coatings	<input type="checkbox"/>

especially recommended recommended

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Recommended Levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments: 5-10 %
Titanium dioxides: 1-3 %
Organic pigments: 20-45 %
Carbon blacks: 20-80 %

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 incorporated into the millbase before addition of pigments. Pre-mix the resin and solvent components of the millbase and then gradually let the DISPERBYK-2151 flow in whilst stirring. Only add the pigments when the additive has been thoroughly distributed.



Additive Guide



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