DISPERBYK-2151 TF

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

Product data

Composition
Polyglycol-polyester-modified polyakyleneimine

Tin-free

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

Density (20 °C):	1.06 g/ml
Non-volatile matter (10 min., 150 °C):	80%
Flash point:	44 °C

Special note
DISPERBYK-2151 TF is the tin-free version of DISPERBYK-2151.

Applications

Coatings industry

Special features and benefits
DISPERBYK-2151 TF is recommended for use in solvent-borne and solvent-free epoxy systems, and other reactive systems, such as acid-catalyzed systems and 2-pack polyurethanes. During grinding of the pigments and fillers, the polyester side chains of the additive are compressed and the adhesive forces of the aminic groups toward the surface of the pigment or filler are increased. The pigment-affinic groups are then adsorbed onto the pigments and fillers, while the polyester side chains continue to shield the amine groups from the epoxy resin. This results in a significant reduction in viscosity – even in solvent-free formulations – and no undesirable interactions with the resin, allowing long-term storage stability. The wetting and deflocculation of the solids is outstanding. DISPERBYK-2151 TF is broadly compatible and has no negative influence on corrosion resistance, yellowing resistance, or adhesion to metal.

Recommended use

Industrial coatings	■
Floor coatings	■
Wood and furniture coatings	■
Protective coatings	■
Automotive coatings	□

■ especially recommended □ recommended

Recommended levels

Amount of additive (as supplied) based upon pigment:

Inorganic pigments:	5-10 %
Titanium dioxide:	1-3 %
Organic pigments:	20-45 %
Carbon black:	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 DISPERBYK-2151 TF is slowly incorporated while stirring. Do not add the pigments until the additive has been fully distributed.

BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com