



DELTA-DC® 4010

DELTA-DC® 4010 is a wetting and dispersing additive for solvent-based coatings to improve pigment wetting, reduce the grinding time and stabilize the pigment dispersion. Deflocculation of the pigments stabilizes hue and color strength and prevents flooding and floating. DELTA-DC® 4010 drastically reduces viscosity and improves gloss and levelling of the coatings. It is suitable for stabilizing inorganic pigments and extenders in particular titanium dioxide, and strongly reduces mill-base viscosity. It reduces haze in inorganic pigmented coatings in electrostatic spraying applications. DELTA-DC® 4010 is suitable for coatings and composite.

Specifications:

Composition	:	Solution of an acidic polyester polyamide (anionic)
Solvent(s)	:	Xylene/s-butanol
Specific gravity @ 20°C	:	0.97-0.99 g/cm ³
Flashpoint	:	25 °C
Appearance	:	Transparent, slightly yellowish liquid
Acid value	:	65-85 mg KOH/g
Active ingredients	:	50%

Methods of analysis can be received upon request

Applications and usage:

►Coatings

DELTA-DC® 4010 is a conventional dispersant for solvent-based coatings to improve pigment wetting, reduce the dispersion time and increase gloss and flow. It is particularly suitable for stabilizing titanium dioxide and extenders. DELTA-DC® 4010 strongly reduces mill-base viscosity allowing high pigment loading.

It is suitable for the following applications:

- General industrial coatings
- Transportation coatings (OEM and car refinish)
- Acid-catalyzed systems (e.g. coil coatings)
- PU sanding sealers (e.g. wood coatings)

DELTA-DC® 4010 should be added prior to the dispersion/grinding process.

5.0-10.0% (delivery form) on inorganic pigments

1.0-5.0% (delivery form) on TiO₂ and extenders

►Composite

DELTA-DC® 4010 helps to wet and disperse extenders (CaCO₃ and Al(OH)₃) with unsaturated polyester resins or combinations with polystyrene, polyvinylacetate and styrene-butadiene copolymers. This results in:

- Easier incorporation of the extenders leading to reduced dispersing/grinding times
- Lower and stable viscosity of the pastes and therefore improved flow, higher filler loading and better flame retardance

It is designed for filled SMC (sheet moulding compounds) and BMC (bulk moulding compounds), and also suitable for filled gelcoats.

DELTA-DC® 4010 should be added to the resin system while stirring prior to the addition of the extenders.

2.0-4.0% (delivery form) on extenders

Safety and Handling:

DELTA-DC® 4010 should be handled in accordance with good industrial practice. Detailed information can be found in the Safety Data Sheet.

Storage:

DELTA-DC® 4010 should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 5 years from the date of manufacture. The production date is indicated on the container.

Packaging:

50 kg and 180 kg non-returnable metallic containers.