

## Technical Data Sheet

Last revised: **01-2019**

### DELTA-DC® 4010M

**DELTA-DC® 4010M** is a wetting and dispersing additive for solvent-based coatings to improve pigment wetting, reduce the grinding time and stabilize the pigment dispersion. **DELTA-DC® 4010M** 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® 4010M** is suitable for **coatings** and **composite**.

#### Specifications:

|                         |   |
|-------------------------|---|
| Composition             | : Solution of an acidic polyester polyamide (anionic) |
| Solvent(s)              | : Xylene/s-butanol                                    |
| Specific gravity @ 20°C | : 1.00-1.04 g/cm <sup>3</sup>                         |
| Flashpoint              | : 25 °C   |
| Appearance              | : Transparent, yellowish liquid                       |
| Acid value              | : 130-140 mg KOH/g                                    |
| Active ingredients      | : ca. 50%   |

Methods of analysis can be received upon request

#### Applications and usage:

##### Coatings

**DELTA-DC® 4010M** 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® 4010M** 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 – Extender pastes)

**DELTA-DC® 4010M** reduces haze in inorganic pigmented coatings when application occurs by electrostatic spraying.

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

**5.0-10.0%** (delivery form) on inorganic pigments, including transparent iron oxides

**2.0-4.0%** (delivery form) on TiO<sub>2</sub> and extenders

##### Composite

**DELTA-DC® 4010M** helps to wet and disperse extenders (CaCO<sub>3</sub> and Al(OH)<sub>3</sub>) 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

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

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

**2.0-4.0%** (delivery form) on extenders

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### **Safety and Handling:**

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

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### **Storage:**

**DELTA-DC® 4010M** 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.

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### **Packaging:**

50 kg and 180 kg non-returnable plastic containers.

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