

## Technical Data Sheet

Last revised: 01-2019

### DELTA-DC® 4207

**DELTA-DC® 4207** is a multi-purpose wetting and dispersing additive for solvent-based and solvent-free coatings to improve pigment wetting, reduce the time required for the grinding process and stabilize the pigment dispersion. It is especially developed for solvent-based architectural paints and general industrial coatings to stabilize TiO<sub>2</sub>, extenders and other inorganic and organic pigments. **DELTA-DC® 4207** can be used in **coatings** and **printing inks**.

#### **Specifications:**

Composition	:	Hydroxyfunctional carboxylic acid ester with pigment affinic groups
Specific gravity @ 20°C	:	ca. 0.95 g/cm <sup>3</sup>
Appearance	:	Clear to slightly hazy and brownish liquid
Amine value	:	80-90 mg KOH/g
Active ingredients	:	>98%

Methods of analysis can be received upon request

#### **Applications and usage:**

##### Coatings

**DELTA-DC® 4207** is a highly concentrated wetting and dispersing additive for inorganic pigments (especially TiO<sub>2</sub>) and extenders. The use of **DELTA-DC® 4207** results in the following advantages:

- Reduced dispersion time
- Increased gloss
- Decreased flooding of pigments

**DELTA-DC® 4207** is a multi-purpose additive and can be used in any solvent- or solvent-free resin systems. It is well-suited for the production of high-solids and aromatic-free architectural paints.

White base paints stabilized with **DELTA-DC® 4207** have better color acceptance and do not demonstrate flooding and floating when tinted with universal colorants.

**DELTA-DC® 4207** is suitable to formulate pigment concentrates based on long-oil alkyds.

**DELTA-DC® 4207** should be added prior to the dispersion process.

**0.8-1.5%** on TiO<sub>2</sub> or extenders

**3.0-5.0%** on inorganic pigments

**5.0-9.0%** on organic pigments or carbon blacks

##### Printing Inks

**DELTA-DC® 4207** is a dispersant for enhancing the dispersion of inorganic pigments (particularly TiO<sub>2</sub>) in solvent-based media. This results in:

- Improved dispersion or suspension stability
- Improved color strength
- Improved opacity with TiO<sub>2</sub>
- Lower viscosity and/or higher pigment loading

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- Reduced dispersion time
- Higher gloss

When used in whites, **DELTA-DC® 4207** will improve the co-stabilization of added organic tinting or toning bases (e.g. color acceptance) resulting in reduced risk of pigment separation.

It has broad solvent compatibility and is suitable for use in both alcohol- and acetate-reduced nitrocellulose printing inks and pigmented bases. **DELTA-DC® 4207** is well-suited to packaging flexographic applications.

For best results, **DELTA-DC® 4207** should be combined with the pre-blended liquid portion of the mill-base formulation before addition of the pigment.

**0.8-1.5%** on TiO<sub>2</sub>

**3.0-5.0%** on inorganic pigments

**5.0-9.0%** on organic pigments or carbon blacks

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### **Safety and Handling:**

**DELTA-DC® 4207** 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® 4207** 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:**

55 kg and 190 kg non-returnable metallic containers.

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