

## Technical Data Sheet

Last revised: **01-2019**

### DELTA-FC® 1019

**DELTA-FC® 1019** is a Silicone-free defoamer for solvent-based **coatings**, solvent-based printing **inks**, and **composite** to prevent foam formation during production, filling and application. **DELTA-FC® 1019** displays spontaneous defoaming properties and demonstrates no negative influence on inter-coat adhesion when over coated. Due to its strong incompatibility (better defoaming properties), the influence upon the transparency of clear systems and upon cratering must be evaluated. When used in the ink industry, it reduces the accumulation of foam in the ink pan or reservoir during the printing process

#### **Specifications:**

Composition	: Solution of defoaming agents, silicone-free
Solvent(s)	: Special boiling point spirit (140/165)
Flashpoint	: 30 °C
Specific gravity @ 20°C	: ca. 0.78 g/cm <sup>3</sup>
Appearance	: Clear – Colorless
Active ingredients	: 20%

Methods of analysis can be received upon request

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

##### **Coatings**

**DELTA-FC® 1019** is highly recommended in the following application systems:

- Thermoplastic acrylics especially when applied by brush or roller
- Nitrocellulose
- Acid-curing wood finishes
- Unsaturated polyesters
- Cold-curing epoxy systems

Due to its high incompatibility, which makes it strong in defoaming, the influence of **DELTA-FC® 1019** upon the transparency of clear or non-pigmented systems must be evaluated.

It should be added prior to processing. A post-addition is possible though, if sufficient shear forces are applied to ensure uniform distribution of the additive.

**0.05-0.7% on total formulation weight**

##### **Printing Inks**

**DELTA-FC® 1019** is suited for solvent-based formulations. It can be used in solvent-based pigment bases and printing inks.

**DELTA-FC® 1019** is particularly effective in nitrocellulose-based systems and may be used in gravure and flexographic printing.

**DELTA-FC® 1019** can be added in the premix stage prior to dispersion. If added post manufacture or press-side, care should be taken to ensure uniform distribution.

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### 0.1-0.7% on total formulation weight

#### Composite

**DELTA-FC® 1019** prevents the encapsulation of air during the production and application of duroplastic resin systems (i.e. unsaturated polyesters...etc).

**DELTA-FC® 1019** is suitable for the following applications/processes:

- Gel coats
- Laminating
- Lay-up
- Spray-up

**DELTA-FC® 1019** should be incorporated into the resin system prior to processing in order to prevent foam and blisters. If it is added at the end of the formulation, good dispersion must be ensured.

### 0.1-0.5% on total formulation weight

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#### **Safety and Handling:**

**DELTA-FC® 1019** 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-FC® 1019** should be stored in a cool dry place. When kept in an original unopened container, it will keep up to 4 years from the date of manufacture. The production date is indicated on the container.

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#### **Packaging:**

20 kg and 150 kg non-returnable containers

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