

Technical Data Sheet

Last revised: **01-2019**

DELTA-SC® 2031

DELTA-SC® 2031 is a silicone surface additive to provide good substrate wetting of critical substrates and excellent anti-cratering by reduction of surface tension of the coating systems. It also improves surface slip, scratch resistance and anti-blocking properties.

DELTA-SC® 2031 is a heat resistant silicone additive, which shows no thermal decomposition at temperatures between 150°C and 230°C. Due to its low surface tension, it prevents floating of pigments, Bénard cells and pinholing. It is suitable for **coatings** and **printing inks**.

Specifications:

Composition	: Solution of organically modified siloxane
Solvent(s)	: Alkylbenzene
Specific gravity @ 20°C	: ca. 0.95 g/cm ³
Flashpoint	: 40 °C
Appearance	: Clear to slightly hazy, colorless liquid
Active ingredients	: 52.5%

Methods of analysis can be received upon request

Applications and usage:

Coatings

DELTA-SC® 2031 is compatible with all medium- to high-polarity solvent-based systems. It is suited for:

- Wood finishes based on unsaturated polyesters, polyurethane and nitrocellulose. It is also suitable for UV-curable wood coatings
- Metal coatings, e.g. transportation coatings. **DELTA-SC® 2031** improves levelling, marresistance and acts as an anti-blocking agent. It can interfere with inter-coat adhesion when recoated without sanding. If used in conjunction with **DELTA-SC® 2777**, good flow and slip properties can be obtained, especially in top coats.
- If air is introduced by the application equipment, small amounts of defoamers such as **DELTA-FC® 1020** and **DELTA-FC® 1022** should be added.
- Acid-curing and stoving coatings

It can be added at any stage of manufacture as long as sufficient shear forces are applied to ensure uniform distribution of the additive.

0.1-0.3% on total formulation weight

Printing Inks

DELTA-SC® 2031 improves substrate wetting, levelling and increases scuff and mar resistance in inks and over-print varnishes. An applied film containing **DELTA-SC® 2031** is relatively insensitive to pinholing. It is especially effective in nitrocellulose-based flexographic inks and UV-curable over-print varnishes.



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DELTA-SC® 2031 can be added at any stage of the manufacturing process. In all cases care should be taken to ensure uniform distribution.
0.1-0.3% on total formulation weight

Safety and Handling:

DELTA-SC® 2031 should be handled in accordance with good industrial practice. Detailed information can be found in the Safety Data Sheet.

Storage:

DELTA-SC® 2031 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 190 kg non-returnable metallic containers.
