

Technical Data Sheet

Last revised: 01-2019

DELTA-SC® 2231

DELTA-SC® 2231 is a silicone-based surface additive to improve surface properties in all solvent-based medium- to high-polar systems. It is specially used in systems in which solvent-free additives are requested or where a requirement for a special solvent exists. **DELTA-SC® 2231** can be used in **coatings** and **printing inks**.

Specifications:

Composition	: Organically modified polysiloxane
Active ingredients	: >95%
Specific gravity @ 20°C	: 1.01 – 1.03 g/cm ³
Refractive index	: 1.442 – 1.452
Appearance	: Clear, slightly yellowish liquid

Methods of analysis can be received upon request

Applications and usage:

Coatings

DELTA-SC® 2231 is compatible with all medium- to high-polarity solvent-based systems. It gives the following advantages:

- Improves mar resistance and anti-blocking characteristics
- Increases slip and surface smoothness
- Prevents floating of pigments
- Reduce sensitivity to air-draughts

Wood finishes:

In unsaturated polyesters e.g. UV-cured, **DELTA-SC® 2231** improves slip and smoothness of the surface and does not influence curtain stability when applied as curtain coating. The sensitivity to air-draughts when sprayed or poured will be reduced by **DELTA-SC® 2231**.

Metal coatings:

DELTA-SC® 2231 improves levelling and mar-resistance and acts as an anti-blocking agent. This is particularly advantageous in polyurethane systems based on hydroxyl acrylics.

Due to its high surface activity, **DELTA-SC® 2231** can interfere with inter-coat adhesion when recoated

without sanding. If air is introduced by the application equipment, small amounts of foam control additives such as **DELTA-FC® 1020** or **DELTA-FC® 1022** should be added.

It can be added at any stage during the production process.

0.05-0.15% on total formulation weight

Printing Inks

DELTA-SC® 2231 is active at the substrate and air interfaces of inks and overprint varnishes. This results in:

- Improved substrate wetting and levelling

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- Improved block resistance
- Increased scuff resistance

DELTA-SC® 2231 has very broad compatibility with a broad range of printing ink systems. An applied film containing **DELTA-SC® 2231** is relatively insensitive to pin-holing even at high concentrations of the additive.

DELTA-SC® 2231 is especially effective in nitrocellulose-based systems for flexographic and gravure printing.

DELTA-SC® 2231 is also effective in UV flexographic printing.

DELTA-SC® 2231 can be added at any stage during the production process. In all cases care should be taken to ensure uniform distribution.

0.05-0.15% on total formulation weight

Safety and Handling:

DELTA-SC® 2231 should be handled in accordance with good industrial practice. Detailed information can be found in the Safety Data Sheet.

Storage:

DELTA-SC® 2231 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 non-returnable metallic containers.
