

Hydrophobic and Oleophobic Surface Coating

SEESURF MT® is a high-performance hydrophobic and oleophobic agent. It prevents the spreading of oils or water by reducing the surface tension of the treated part. It helps prevent contamination on glass surfaces.

SEESURF MT® is invisible, with a nanometric thickness, and its application process is fast and reproducible. The performance of SEESURF MT enables an effective, durable surface treatment that is resistant to many conditions. SEESURF MT® is environmentally friendly and compliant with European and international regulations.

SEESURF MT® is useful for :

- Making surfaces hydrophobic and oleophobic
- Reducing adhesion and facilitating the release of composite materials from metal molds
- Limiting contamination on oxidized surfaces
- Promoting water run-off on all types of glass

SEESURF MT® bonds as a self-assembled monolayer of constant thickness on oxidized surfaces such as glass or metals.

APPLICATION PROCESS

Surfaces must be cleaned using a solvent or a detergent. Ensure they are completely dry and free from contamination before applying the product.

Dip Coating

- Immerse the surface in a tank containing SEESURF MT for 10 minutes,
- Drain the surface,
- Let the surface dry at room temperature for 10 minutes,
- Rinse the surface with alcohol or wipe it with a microfiber cloth,
- If necessary, use an air flow to accelerate drying.

Spray Application

- Pour SEESURF MT into a spray bottle of your choice,
- Hold the spray nozzle approximately 5 cm from the surface,
- Spray SEESURF MT to form a wet, continuous film on the surface,
- Let the surface dry at room temperature for 10 minutes,
- Rinse the surface with alcohol or wipe it with a microfiber cloth,
- If necessary, use an air flow to accelerate drying.

The coating reaches optimal performance a few hours after application. To maximize SEESURF MT performance, this process can be repeated a second time.

PERFORMANCE

SEESURF MT achieves water (H₂O) contact angles greater than 110° and hexadecane contact angles greater than 70°.

The wettability and adhesion forces of the treated surface are significantly reduced, reaching surface energy levels close to those of PTFE.

SEESURF MT withstands abrasion for 100 cycles at a pressure of 130 kPa.

SEESURF MT is stable up to temperatures of 150°C.

SEESURF MT is not degraded by washing in aqueous media, detergents, or solvents.

PHYSICO-CHEMICAL PROPERTIES

Surface tension	13 +/- 2 dyn.cm ⁻¹
Appearance	colorless
Flash point	none
Boiling point	76°C
Freezing point	-138°C
Density at 25°C	1.43
Ozone Depletion Potential	0
Global Warming Potential	55
Atmospheric persistence	0.77 year

PRODUCT INFORMATION

SEESURF MT® is available in 100 mL or 1 L bottles.

SEESURF MT® is composed of a perfluoropolyether alkoxy silane dissolved in a fluorinated solvent. Precautions for use are described in the Safety Data Sheet. SEESURF MT® is a non-flammable and non-explosive product.

Surfactis Technologies is certified ISO 9001 since 2013.

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