

7601 Super Glass

This high-quality SiO₂ coating was specially developed for glass surfaces. It forms an ultra-thin, transparent protective layer that protects glass surfaces from dirt, UV radiation, and wear. Thanks to its easy-to-clean effect, dirt, limescale, and other deposits can be easily removed. Ideally suited for glass facades, windows, mirrors, shower enclosures, windshields, and solar modules.

PROPERTIES

- Strong hydrophobic and oleophobic effect – repels water and oil
- Easy-to-clean effect – dirt can be easily wiped off
- High abrasion resistance – permanent chemical bond with the substrate
- Temperature and UV resistant – ideal also for outdoor applications
- Breathable – the material remains diffusion-open
- Suitable for household and industrial use – chemical resistance up to pH 12
- Food-safe – inert
- Reduced cleaning cycles – saves time, energy, and costs
- Biostatic effect – inhibits the growth of microorganisms
- Food-safe (LFGB compliant, EU Regulation 1935/2004)
- Contact angle: approx. 92° (remains >70° after 200,000 abrasion cycles)
- 9H hardness (ISO 15184)
- Self-cleaning effect on vertical surfaces (after heavy rain)
- Long-lasting effect

PRODUCT SPECIFICATIONS & CHEMICAL PROPERTIES

Base	Silicon dioxide (SiO ₂), alcohol-based
VOC content	99 % (780 g/l)
Flash point	< 14 °C
Dry film thickness	Approx. 60-150 nm (recommended)
Viscosity	Approx. 0,794 g/cm ³
pH Value	Approx. 7
Odor	Characteristic
Colour	Colourless
Consumption	Approx. 4-10 ml/m ² (up to 250 m ² per litre)
Temperature resistance	-25 °C to +50 °C (including sunlight)
Shelf life	At least 2 years
Application temperature	-3 °C to +30 °C

Shelf life

Up to 3 years, depending on abrasion (windscreens up to 6 months)

PFAS INFORMATION

7601 is free of PFOS and PFOA and thus complies with applicable legal limits. Furthermore, the coating meets the current EU regulation 2024/2462, which sets a limit of less than 25 ppb for PFHxA and related substances. The total content of PFHxA in the **7601** coating is approx. 200 ppb, thus ensuring its unrestricted marketability within the EU.

Technical explanation of fluorine content

The **7601** coating is not classified as "C Zero" because it contains small amounts of fluorinated additives. These are used in very low concentrations to ensure the necessary chemical bond and the desired oil and dirt repellence that are crucial for your application.

APPLICATION & PROCESSING

Application on glass

Surface preparation

- Thoroughly clean the surface to be coated; it must be free of dust, dirt, and grease.
- Rinse with clean water and dry.
- Then degrease with isopropanol (70–99.9%) to remove surfactant residues.
- Allow the surface to dry completely.

Application

- Apply the coating at temperatures between +5 °C and +50 °C.
- Spray the coating onto a lint-free cloth (e.g., microfiber) and apply evenly.
- Do not touch the surface for 15 minutes.
- Polish with a soft microfiber cloth to remove any streaks.
- The surface is slightly load-bearing after about 1 hour, fully cured after 24 hours.

Functional test

- After 24 hours, test with a drop test – water should visibly bead up (lotus effect).

Application on windscreens

- Clean as above.
- Apply at a maximum of +30 °C, not in direct sunlight.
- Carefully polish with a microfiber cloth after 5–30 minutes.
- The surface is weatherproof after one hour and fully cured after 10 hours (do not use windshield wipers during this time).

CLEANING & CARE

Aggressive cleaners are no longer necessary. Surfaces can be easily cleaned with a mild cleaner (e.g., CCM Bio Cleaner Biosativa®). Regular cleaning prolongs the effect. If the water-repellent effect diminishes, additionally clean the windshield and wipers with alcohol after cleaning.

QUALITY STANDARDS & TESTS

- Antibacterial effect (TÜV) – >99.99% germ reduction
- Hydrophobicity test (TÜV) – water beads off at 50 km/h
- 9H hardness test (SGS) – ISO 15184
- Increased scratch and impact resistance (Erichsen test and ASTM D523/D2244)
- UV resistance – no yellowing after 2000 hours
- LFGB-compliant for food contact
- REACH tests – all limits met (no lead, no SCCPs, no SVHCs >0.1%)
- Solar module test – increased energy efficiency due to reduced soiling

PACKAGING UNITS & VARIANTS

- 1 L bottle (7601-1)
- 200 L drum (7601-200)
- 1000 L IBC (7601-1000)
- Concentrate version (7658) available for 20 litres of ready-to-use solution.

SAFETY & TRANSPORT

- Dangerous goods: Yes (UN 1170, Ethanol solution, Class 3, PG II)
- Hazard statements: H225 – Highly flammable liquid and vapor. H319 – Causes serious eye irritation.
- Personal protective equipment: Safety goggles and gloves recommended
- Disposal: According to local regulations

UN No.: 1219 – ISOPROPANOL (Packaging Group II)

For liquid containers, the regular dangerous goods regulations apply (ADR/IMDG/IATA).

For sachets (individually packed impregnated wipes), IATA DGR Special Provision A46 applies, a special rule: Not subject to ADR, as it is a "sealed package containing less than 10ml of a flammable liquid of Packing Group II or III, fully absorbed in a wipe."

HS Code 3824 9992