7641 Hybrid, PFAS-free

Premium coating for non-absorbent / hard surfaces

7641 Hybrid Coating is a high-quality, two-component hybrid coating based on an epoxy-siloxane hybrid system. It is suitable for both sensitive natural stone surfaces such as marble and demanding industrial applications on metal, plastic, GRP, and other hard substrates.

The coating forms a highly transparent, glossy protective layer with easy-to-clean effect, colour enhancement, excellent chemical and mechanical resistance, as well as anti-graffiti and anti-corrosion properties. It is resistant to UV radiation and weathering, and can be used both indoors and outdoors, e.g. in construction, marine environments, floors or facades.

PROPERTIES

- Highly transparent, glossy surface with colour enhancement
- Hydrophobic & oleophobic easy-to-clean properties
- Excellent chemical and mechanical resistance
- UV and weather resistant
- Resistant to oil, fuels, household chemicals, and cleaners
- Re-coating possible
- For indoor and outdoor use
- Suitable for: stone, marble, concrete, metal, GRP, plastic, etc.

PRODUCT SPECIFICATION & CHEMICAL PROPERTIES

Base	Epoxy-siloxane hybrid resin, 2-component system, C1: 846g, C2: 154g
Colour	Colourless / slightly yellowish
Odor	Typical solvent-like / amine-like
Gloss level	Glossy
Viscosity	Low viscosity
VOC content	Component A: approx. 45%, Component B: approx. 10%, Mixed: approx. 38% (≈ 380 g/l)
Flash point	Component A: approx. 27 °C, Component B: approx. 82 °C, Mixed: approx. 30–35 °C
Consumption	Typical consumption: approx. 12–16 g/m² Coverage: approx. 60–80 m²/kg at a dry film thickness of approx. 15 µm

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Drying (dust dry)	approx. 1 hour at 20 °C
Recommended dry film thickness	Approx. 10–20 µm dry film thickness (DFT), depending on substrate and application method
Density	approx. 1.05 g/cm³ (mixed)
Application temperature	+10 °C to +30 °C
Pot life	approx. 60 minutes at 20 °C
Storage	+5 °C to +25 °C, dry, protected from light
Shelf life	24 months (unopened)
Durability of coating	Indoor up to 5 years, outdoor 2–3 years (depending on load and maintenance)
Maintenance	Cleaning with mild cleaners, e.g. Biosativa®

PFAS-INFORMATION

7641 does not contain any PFAS (per- and polyfluoroalkyl substances), including PFOS and PFOA. The product therefore meets the highest standards of sustainability and legal compliance with EU Regulation 2024/2462.

APPLICATION & PROCESSING

Surface preparation

The surface to be coated must be clean, dry and free from dust, oil, grease and other release agents. Any contamination or residues of cleaning agents must be completely removed. The substrate must be fully dry before application.

Mixing ratio

Component A and Component B must be mixed thoroughly in a ratio of **5.5 : 1 (by weight)** until a homogeneous mixture is obtained.

Pot life

The mixed material should be applied within **approx. 60 minutes at 20 °C**.

Application

The coating can be applied using:

- foam roller
- low-pressure spray system

Apply the material evenly and in a thin layer.

Film thickness

Recommended dry film thickness: **approx. 10–20 µm**.
At a typical dry film thickness of **approx. 15 µm**, the consumption is about **12–16 g/m²**, corresponding to a theoretical coverage of **approx. 60–80 m²/kg**.

Drying

Dust dry after **approx. 1 hour at 20 °C**.

Curing

Full chemical curing is achieved after **approx. 7 days at room temperature**.

Notes during curing

During drying and curing, the surface should be protected from moisture, contamination and insects.

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.

QUALITY STANDARDS & TESTS

7641 Hybrid Coating was tested in accordance with the international standard AS/NZS 4020:2005 for use in contact with drinking water. The tests were conducted by a NATA-accredited ISO/IEC 17025 laboratory (Australia) and passed the following criteria:

- Taste of the water extract: No change detected
- Appearance of the water extract: No turbidity or discoloration
- Growth of aquatic microorganisms: No promoting effect
- Cytotoxic activity: No cell damage observed
- Mutagenicity: No mutagenic potential detected
- Metal leaching: All tested metals below limits per AS/NZS 4020 Table 2

The test was conducted under demanding conditions with exposure surfaces up to 42,000 mm²/L – all criteria were fulfilled.
Conclusion: The coating is certified as suitable for applications in drinking water contact areas.

PACKAGING UNITS & VARIANTES

- 1 kg combo set (Component A + B), *7641-1*
- 5 kg combo set (Component A + B), *7641-5*

SAFETY & TRANSPORT

Dangerous Goods: Yes (according to ADR/IMDG/IATA)
UN number: 1263
Hazard class: 3 (flammable liquid)
Packing group: II
Hazard symbols:
GHS02 (Flame)
GHS07 (Exclamation mark)
GHS09 (Environment)
Signal word: Danger

HS Code: 3209 9091 (for both components)