

7685 Textile Coating Concentrate

PRODUCT DESCRIPTION

7685 Dura Tex is a high-performance, water-based SiO₂ concentrate system for the permanent hydrophobic and oleophobic treatment of textiles, leather, and paper. The coating is completely invisible, does not alter the feel, colour, or breathability of the substrate, and is suitable for both manual and automated/industrial applications. The product is designed for indoor and outdoor use and provides long-lasting protection against water, oil, dirt, and other contaminants.

Application Areas

- Cotton
- Blended fabrics
- Microfibre
- Alcantara
- Suede
- Clothing
- Home textiles (upholstery, furniture, carpets)
- Paper, cardboard

PROPERTIES

- Water and oil repellent (contact angle water >130°, oil >110°)
- Stain protection against coffee, tea, wine, cola, milk, etc.
- No impact on breathability
- UV-resistant, non-yellowing (UV stability ensures a functional lifespan over many years, approx. the lifetime of the coated surface; no slow degradation by sunlight)
- Strong anti-stick properties
- Excellent easy-to-clean effect for dirt and liquids
- Fibre protection against the penetration of dirt particles
- Food-safe (inert)
- Highly durable and abrasion-resistant
- Temperature resistant
- Easy to apply (do-it-yourself)
- No visible change in appearance or texture of the substrates (layer thickness: 100–150 nm) / breathable

PRODUCT SPECIFICATIONS & CHEMICAL PROPERTIES

Property	Value
Base	Water-based hybrid formulation (SiO ₂)
VOC content	< 5 %
Flash point	Not applicable (aqueous, non-flammable)
Layer thickness	<100 nm (ultra-thin)
Density	Approx. 1.0 g/cm ³
Ph value	4-5 (in water)
Odor	Slightly alcoholic (disappears on drying)
Colour	Colourless
Consumption	25-120 ml/m ² (approx. 8-40 m ² /per litre ready-to-use, depending on fabric)
Temperature resistance	-30 to +200 °C
Shelf life (liquid)	24 months (unopened)
Storage	5-25 °C, protect from light and frost
Durability of coating	Typically, 3 to 6 months (689: 3 months / 7689: 6 months); durability may extend to several years depending on use and maintenance.

PFAS INFORMATION

7685 contain PFAS but is free from PFOA and PFOS.

APPLICATION & PROCESSING

- If necessary, pre-wash textiles and allow to dry completely
- Apply by spraying, rolling or dipping
- Apply evenly to ensure full saturation
- Allow to air dry for at least 24 hours
- Heat treatment (e.g. ironing or tunnel dryer) enhances performance
- Application temperature: 10–30 °C and <70% humidity
- Clean tools with water immediately after use

Detailed Instructions

- To achieve long-lasting performance, all surfaces must be completely clean and free from conditioners or silicones. Test colour fastness in an inconspicuous area.
- **Dilute concentrate 1:9 – 1:39 with demineralized water depending on the planned application.**
CCM 689 = 1:19
CCM 7689 = 1:9
- Spray a tin, even layer from a distance of approx. 25 cm – fabric must be evenly moistened but not soaked (2–3 sprays, "wet-on-wet", are usually enough for a medium-thickness fabric like a tie or blouse. Thicker fabrics may require more).

- Coating is fully functional after 24 hours but can be accelerated by heat (e.g., blow-drying or ironing on low heat until dry).

QUALITY STANDARDS – TESTS

- ISO 11507 UV resistance >3,500 h
- IMO-ISO smoke & toxicity test passed
- Hohenstein Eco Passport Certificate
- CCM oleophobic and stain resistance test

PACKAGING UNITS & VARIANTS

- 1,000 ml bottle (7685-1)
- 5,000 ml canister (7685-5)
- 20-litre canister (7685-20)

SAFETY & TRANSPORT

- Not classified as hazardous material according to ADR/RID/IMDG/IATA
- No labelling requirement according to CLP
- Personal protective equipment recommended during application

HS Code 3209 1000