

Scope of application

Nano-EcoLine Textile Basic is a water-based spray-on textile protector that provides water-, dirt- and oil-repellent properties to absorbent textile substrates. The product is user-friendly and suitable for consumer and retail applications. It is UV-stable and non-migrating.

Suitable for

- Highly absorbent upholstery fabrics and furnishing textiles.
- Suede and Alcantara.
- Many standard textiles, carpets and curtains (provided they are free from surfactant residues).

Not suitable for / important notes

- Materials with silicone or surfactant residues (reduce effect and adhesion).
- Always test first on a small, inconspicuous area (colour/material sensitivity).
- The substrate must be clean and dry; avoid excessive wet spots.

Key properties

- Water-, dirt- and oil-repellent.
- Transparent, preserves appearance (100% transparency).
- UV-stable and non-migrating.
- Temperature- and chemical-resistant.
- Wash-resistant (indicatively 10–40 wash cycles, depending on textile and washing process).

Preparation

- Textile must be dry and free from dust and grease.
- Remove anionic cleaner/surfactant residues (when in doubt: pre-clean first).
- Shake or mix the product before use.

Application

- Apply to the surface using a standard pump sprayer / spray system.
- If the substrate does not absorb immediately: roll in or work in for even wetting.
- Allow to dry; the coating is fully cured after 24 hours.

Safety information

- According to the SDS, the product is not classified as hazardous (CLP).
- Avoid inhalation of mist; ensure sufficient ventilation during spray application.
- Wear suitable PPE (gloves and safety glasses), especially during prolonged use.
- Close the packaging after use and keep out of reach of children.

Approvals / compliance

- Öko-Tex ECO Passport (product information).
- Certificate: under test conditions, complies with requirements for materials intended for food contact (migration test 24 hours at 40 °C with 10% ethanol; reference to LFBG and Regulation (EC) 1935/2004).

Technical data

Property	Value / Description
Chemical base	Modified silicon dioxide (SiO ₂) – water-based
Layer thickness	approx. 100-150 nm
Water repellency	contact angle approx. 130°-150° (20 µl)
Oil repellency	contact angle approx. 120°-130° (20 µl)
Temperature resistance	250 °C continuous, 450 °C peak
Chemical resistance	pH 1-13
Weather resistance	up to 3500 hours (ISO 11507 A)
Wash resistance	approx. 10-40 wash cycles (AATCC 135, ECE detergent)
Saltwater resistance	Yes
Transparency	100%
Coverage	approx. 80-150 ml/m ²
Curing	Fully cured after 24 hours
Physical form	Liquid; colourless (slightly opaque); odourless
pH (20 °C, conc. 50%)	3-5
Viscosity (20 °C)	1-10 mPa·s
Solubility	Miscible with water
Density (20 °C)	approx. 1.03-1.09 g/cm ³
Storage	1 °C to 30 °C; tightly closed, cool and dry
Shelf life	2 years (unopened, correctly stored)

Packaging units

Article number	Contents	Packaging type
NC.Tex/1L	1 Litre	Bottle
NC.Tex/5L	5 Litres	Jerrycan

Disclaimer

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