

Nano EcoLine

Water-Based Wood Coating

Product information

Nano-EcoLine Water-Based Wood Coating is a water-based coating developed for wooden surfaces to provide hydrophobic and oleophobic properties against common liquids and stains, with an easy-to-clean effect. The water-based formulation can be used on many wooden (absorbent) substrates and is particularly suitable for industrial use.

Application surfaces

- Absorbent, porous, natural wooden surfaces (e.g. pine, teak, oak, spruce, walnut).
- Wood-based boards and panels: chipboard, laminate floors, panels, raw MDF, etc.

Do not apply on

- Lacquered, painted or artificial wooden surfaces.
- Thermosets and thermoplastics.
- Mineral substrates.

Advantages and key properties

- Water- and oil-repellent.
- Chemical resistance.
- UV protection.
- Breathable coating.
- Easy to clean.
- High coverage on various wooden surface types.

Instructions

- The substrate must be dry and free from dust, oil, grease and other contaminants.
- Apply in a shaded and well-ventilated area.
- Shake the product gently before use.
- Always test first on a small, inconspicuous area.

Application

Manual application

- Spray the required amount of product onto the surface using a spray bottle.
- Work evenly and ensure that the surface appears homogeneous after application.

Pressure spraying

- Choose a spray system that can apply the product homogeneously; a nozzle diameter of 1–2 mm is suitable.
- Spray distance 10–20 cm (depending on other parameters).
- Spray pressure 1.0–1.5 bar (depending on other parameters).
- Apply the product as a fine mist in the required quantity.

Curing

- Room-temperature curing: touch-dry after approx. 6 hours at 23°C / 50% RH; fully cured after 24 hours at 23°C / 50% RH.
- Accelerated curing: possible by applying heat; choose time and temperature depending on the substrate.

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Application tips

- Keep temperature and RH as close as possible to the recommended values for best performance.
- Avoid direct sunlight and only work on cool surfaces.
- Ventilate the area well during the hours after application.
- If the surface is too wet: reduce flow rate, increase spray distance, increase pressure or widen the spray pattern.
- If repellency is insufficient: increase flow rate, reduce spray distance, lower pressure or refine the spray pattern.

Technical data

Property	Value / Description
Appearance	Whitish liquid
Chemical resistance	1 < pH < 11
Dry film thickness	60-70 nm
Coverage	70-100 ml/m ²
Density @23°C	1.017 g/cm ³
pH value	4-5
Breathability (EN 1062-1)	Category 1
Application temperature	5-30 °C (≤50% RH)
REACH compliance	Yes
Durability	Up to 5 years
Storage	0 °C to +35 °C (dry, well ventilated)
Shelf life	24 months unopened; after opening, preferably use within 1 month

Packaging units

Article number	Contents	Packaging type
NCN.W-WB/1L	1 Litre	Bottle
NCN.W-WB/5L	5 Litres	Jerrycan

Disclaimer

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