# Nano EcoLine Renovation (Matt & Gloss)

## What is it?

Nano EcoLine Renovation is an advanced $SiO_2$-based renovation coating, developed to restore weathered surfaces without repainting or masking. Suitable for aluminium and plastics (weathered/chalked) and for painted surfaces that have been exposed to UV for long periods.

## Key benefits

- Restores weathered surfaces (e.g., aluminium frames, façade panels and plastic components).
- No repainting required – saves time, cost and labour.
- Choice of matt or gloss finish.
- High stain and dirt resistance (e.g., oil, wine, lemon juice; depending on substrate and coating build-up).
- Graffiti- and stain-resistant; easy-clean effect.
- Fast curing – dust-dry within minutes; fully cured after approx. 24 hours.
- For manual application, the product can optionally be diluted with IPA (e.g., as a primer layer for hydrophobicity).

## Applications

- Weathered aluminium frames and façade panels.
- Plastic cladding, PVC and Trespa® (HPL).
- Painted/spray-coated surfaces and industrial objects.
- Mineral substrates: stone, concrete and rough mineral surfaces (not suitable for polished substrates; abrade/matt first).
- Outdoor furniture (plastic or aluminium), caravans, campers, boats and construction equipment.

## Coverage, storage and shelf life

- Application temperature: +5 to +40 °C.
- Coverage: approx. 20–100 $m^2$ per litre (depending on substrate, dilution and number of coats).
- Durability: approx. 5 years+ (depending on exposure/substrate).
- Storage: +5 to +25 °C.
- Shelf life (unopened): 12 months.

## Instructions

Surfaces must be dry and free from dust, wax, oil, grease and other contaminants. Application should take place in a shaded and well-ventilated area.

## Manual application

- Always test a small area before treating the entire surface.
- Open the bottle and pour the required amount of product onto a microfibre cloth.
- Use the microfibre cloth on its own or with a suitable application aid.
- Apply the product evenly to the surface using linear movements.
- For larger surfaces, the product can also be applied with a paint roller.
- For manual application, the product can optionally be diluted with isopropyl alcohol (IPA).

## HVLP spraying

- Preferably apply to the final product after tests have been carried out and optimal parameters have been determined.
- HVLP spray gun with 0.8 mm nozzle is recommended.
- Spray distance: 35–50 cm (depending on parameters).
- Spray pressure: 5–6 bar (depending on parameters).
- Apply as a fine mist in the required amount.

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## Technical data

| Property | Value / description |
|---|---|
| Technology | $SiO_2$-based renovation coating |
| Finish | Matt or gloss (variant depending on application) |
| Curing | Dust-dry within minutes; fully cured after approx. 24 hours |
| Dilution | Optional with IPA (manual application/primer layer) |
| Application (HVLP) | 0.8 mm nozzle \| 35–50 cm \| 5–6 bar |
| Coating build-up | 1–3 coats possible<br>(depending on desired protection and substrate) |

## Physico-chemical properties

| Property | Value |
|---|---|
| Flash point | 17 °C DIN ISO 3679 |
| Density | 1,1 g/cm³ DIN 12791 ISO 649 |
| Viscosity | ~ 23 mPa·s ISO 2555 |
| Flow time | ~ 26 s (3 mm) 3 DIN 53211 |
| Colour | cloudy |
| Odour | mild irritant. |
| Water solubility | not miscible |

## Packaging units

| Finish | Article number | Content | Packaging type |
|---|---|---|---|
| Gloss | CM.RENG/1L | 1.0 L | Bottle |
| Gloss | CM.RENG/5L | 5.0 L | Jerrycan |
| Matt | CM.RENM/1L | 1.0 L | Bottle |
| Matt | CM.RENM/5L | 5.0 L | Jerrycan |

## Safety instructions

- Read the Safety Data Sheet (SDS) before use.
- Highly flammable liquid and vapour; keep away from heat, sparks and open flames.
- Causes skin irritation and serious eye damage; wear suitable PPE.

## PPE and workplace

- Wear chemical-resistant gloves, protective clothing and eye/face protection.
- Ensure an eyewash station/washing facilities are available in the work area.

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## Professional notes

- Professional use recommended; work according to your own risk assessment and test area.
- Prevent electrostatic discharge and ensure good ventilation.

## Disposal

- Dispose of product and packaging residues in accordance with local regulations; dispose of contaminated residues via an authorised processor.

## Transport information

- Transport indication: UN 1263 (Paint), class 3, packing group II (refer to SDS for details).

## Disclaimer

The technical information in this document is based on product specifications, tests and practical experience. Because application, substrate and conditions are beyond NanoEnzo's control, the user must always assess suitability and carry out a test area. NanoEnzo accepts liability only for the quality of the delivered product at the time of delivery.