

Nano EcoLine

Natural Stone Protection

Scope

Nano-EcoLine Natural Stone Protection is ready to use and is intended for impregnating all types of natural stone and unglazed tiles in outdoor areas. It is particularly suitable for open-pore and absorbent surfaces, which draw the coating in through capillary action, resulting in optimal performance.

Specifically intended for

- Basalt, concrete, dolomite, limestone, clinker, granite, limonite, marble, quartzite, porphyry, sandstone, travertine, brick.

Key features

Nano-EcoLine Natural Stone Protection is a water-based, silane-based impregnation system. It adheres very well to mineral substrates, penetrates the pores and protects the stone against unwanted moisture and dirt uptake thanks to its capillary-narrowing and hydrophobic properties.

- Very fast drying and activation of the protective function.
- Strong water-beading effect (this may decrease after approx. 1 year, but hydrophobicity remains).
- Reinforces the surface structure.
- Colourfastness is maintained; on dark stones (e.g. basalt) slight colour deepening may occur.
- Protects against acids and alkalis (pH 3-14).
- Helps prevent penetration of salt water.
- Odour-reducing (e.g. urine does not penetrate the stone).
- Photocatalytically active (in sunlight): can lighten coloured stains and helps break down air pollutants (NOx, ozone, SO₂, VOCs).
- Helps prevent the growth of algae, moss and lichen.

Technical data

Property	Value
Colour	Milky white
Form	Suspension (aqueous)
Density	approx. 1.0 g/cm ³
Odour	Faint
pH	7.0
Coverage	1 litre covers approx. 30-40 m ² (depending on surface)

Storage

- Store in a dry, frost-free place at 5-25 °C.
- In unopened, original packaging and stored correctly, shelf life is at least 24 months.

Safety instructions

- Read the Safety Data Sheet (SDS) before use.

Special notes

- Preparation: ready to use. Shake well for 1 minute before use.
- Optimal application temperature: 15-25 °C.
- Surface preparation: surfaces must be clean and dry and must not have been pre-treated with other coatings. Remove contamination such as paint, grease, oil, etc.
- Mask off glass, plastics or metal surfaces that must not be treated. If splashes occur, they can be removed immediately after application with a damp cloth.
- Application: preferably spray. Adjust the distance to the surface to suit your sprayer. The surface should look damp. A bluish or white tint after application is normal and disappears after drying.
- Application procedure: spray once horizontally and once vertically for optimal coverage. Depending on substrate absorbency and requirements, this can be repeated after the first coat has dried.
- Alternative method: brush/roller application on coarse-pore material or for conserving fossils is possible, but test on a small area first. Any bluish tint disappears after drying. Repeat if necessary.
- Note: if too much product is applied in one spot, remove it with a damp cloth while the area is still wet.
- Processing time: allow the product to react for at least 15 minutes. Full curing time is approx. 12 hours. During this time, keep the surface dry and do not load it.
- Cleaning: tools should be cleaned with plenty of water after use.

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Handling and removal

- Work with small quantities: during application, pour a limited amount from the original container into a clean application container.
- Close the original container immediately after pouring to minimise contamination and evaporation.
- Do not continue using the product if it has noticeably thickened, is contaminated or if sediment has formed.
- Dispose of residues and (contaminated) packaging in accordance with local regulations.
- Once fully cured, removal is generally only possible using a suitable cleaner/remover and/or mechanical correction. Always test first on an inconspicuous area.

Safety instructions

- Read the Safety Data Sheet (SDS) before use and follow the measures stated therein.
- Avoid skin and eye contact and prevent inhalation of spray mist; ensure adequate ventilation during spray application.
- Wear appropriate PPE: gloves and safety glasses (and, where required, protective clothing/respiratory protection depending on the situation and the SDS).
- Keep away from heat and ignition sources if indicated by the SDS.
- Store the container tightly closed in a cool, dry and well-ventilated place and keep out of reach of children.

Important information and liability

- Performance and service life depend on the substrate, preparation, application method, layer thickness, conditions (including temperature and humidity) and previously used cleaning agents.
- If applied incorrectly or under unfavourable conditions, unwanted effects may occur such as haze/streaking, dust attraction, static charge, spotting, uneven water behaviour or visible application marks.
- NanoEnzo accepts no liability for (consequential) damage or unsatisfactory results arising from factors beyond our control, including incorrect application, wrong product selection, insufficient pre-treatment, substrate incompatibility or use outside the stated guidelines. The user remains responsible for a test area and suitability assessment.

Packaging units

Content	Article no.
1.0 L	HEC.NS270/1L
5.0 L	HEC.NS270/5L

Disclaimer

The properties described reflect the current state of the art. Due to the wide range of influencing factors (including material and climate), the information provided is non-binding. The user is required to carry out prior tests and assessments on the substrate and produce samples. (Status: January 2024)