

# Nano EcoLine

## Tile & Grout Coating

### What is it?

Nano-EcoLine Tile & Grout Coating is a ready-to-use, colourless and transparent hydrophobic impregnation for mineral substrates with low porosity, such as ceramic tiles, mineral grout, polished marble and natural stone. The coating helps protect the surface against penetration of water, salts and contaminants without changing the colour or gloss. The product is water-vapour permeable and helps reduce damage caused by moisture and acids, thereby extending the service life of tile and grout surfaces.

### Applications

- Ceramic tiles.
- Mineral grout (cement-based).
- Polished marble and smooth natural stone.
- Black marble/slate: can be used without colour deepening or gloss change (always test first).

### Key properties

- Ready to use – no dilution or mixing required.
- Colourless and transparent; no change in gloss or colour depth.
- Very good surface distribution and deep penetration ability.
- Hydrophobic: reduces water absorption by >90% (typical).
- Frost-resistant; water-vapour permeable.
- Protects hairline cracks up to approx. 0.3 mm.
- Helps prevent penetration of aggressive liquids (e.g. alkali, salt water, urine).
- Tested according to EN 1504-2 and TL/TP OS-A (ZTV SIB 90).

### Consumption, drying time and processing

- Consumption: approx. 6–10 m<sup>2</sup> per litre (depending on porosity and application method).
- Guide value for ceramics: approx. 100 g/m<sup>2</sup> (indicative).
- Drying time: minimum 2 hours; full effectiveness after 24 hours (dry conditions).
- Application temperature range: +5 °C to +35 °C.
- Not intended as a seal against pressurised water.

### Maintenance

- Clean treated surfaces with water or a mild cleaner. Avoid aggressive or abrasive products.
- Regular maintenance extends the protection service life.

### Technical data

| Property                  | Value / description                                   |
|---------------------------|-------------------------------------------------------|
| Chemical base             | Organically modified silane (triethoxyisobutylsilane) |
| Form                      | Colourless, clear liquid                              |
| Odour                     | Slight                                                |
| Density                   | approx. 0.9 g/cm <sup>3</sup>                         |
| Water vapour permeability | Yes                                                   |
| Frost resistance          | Yes                                                   |
| VOC content               | Very low                                              |
| Transport classification  | Not classified as a dangerous product (ADR/IMDG/IATA) |

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### Preparation

The surface must be clean, dry and free from grease, oil, paint or other coatings. Remove contamination carefully. Avoid contact with water during application and curing. Non-absorbent substrates (glass, plastic, metal, wood) are not damaged but are also not protected; test beforehand or mask off if necessary.

### Application

- Apply undiluted using a low-pressure sprayer/pump spray, brush, 1-inch fleece roller or paintbrush.
- Apply 2 coats: 1x horizontally and 1x vertically with an interval of approx. 10 minutes.
- The substrate should show a clearly damp/wet appearance; the liquid film should remain visible for a few seconds.
- Vertical surfaces: preferably work from bottom to top and apply to saturation.
- On non-absorbent surfaces, a glossy silicone resin film may form under unfavourable conditions due to humidity; remove immediately after application with alcohol or a suitable cleaner.
- Allow the product to react for at least 2 hours in dry weather.
- Clean tools after use with alcohol/organic solvent.

### Packaging units

| Content | Article number | Packaging type |
|---------|----------------|----------------|
| 1.0 L   | HS.TV.026/1L   | Plastic bottle |
| 5.0 L   | HS.TV.026/5L   | Jerrycan       |
| 20 L    | HS.TV.026/20L  | Can            |
| 200 L   | HS.TV.026/200L | Drum           |

### Safety instructions

- Read the Safety Data Sheet (SDS) before use.
- H315 – Causes skin irritation.
- P264 – Wash thoroughly after handling.
- P280 – Wear protective gloves and eye protection.
- P302+P352 – IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 – If skin irritation occurs: Get medical advice/attention.
- P362+P364 – Take off contaminated clothing and wash it before reuse.
- Contains: Triethoxymethylsilane (typically ~98%).
- WGK 1 – slightly hazardous to water (Germany; indicative).

### Storage

- Store dry at -10 °C to +40 °C.
- Do not expose to moisture or direct sunlight.
- Shelf life in closed original packaging: at least 12 months.

### Disclaimer

The technical information in this document is based on product information, 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.