



# Technical data sheet

## Nano-Ecoline Infusion (impregnation)

### Product information

One of the key features of efficient 'hydrophobization' is a small molecular structure with low viscosity. For Infusion we use a liquid organo-silicon nanocoating that generates a hydrophobic layer in the substrate that efficiently prevents water from penetrating into the building material.

This property has many advantages: Infusion penetrates deeply into the building material such as bricks and thus offers a protection that is neither affected by UV degradation nor by abrasive pollution such as road traffic. Compared to many other surface coatings, Infusion shows considerable durability.

longer

This product range does not cause any visible change to the surface of the building material.

After Infusion has been applied to a surface, it can be further treated, for example painted

Application surfaces

- o Mineral absorbent surfaces
- o Absorbent natural stones
- o Concrete
- o Roof, wall and floor tiles
- o Sculptures

Do not apply the product to surfaces such as:

- o Surfaces treated with a non-absorbent paint or varnish
- o Artificial mineral surfaces
- o Thermosets and thermoplastics
- o Wooden surfaces
- o Glass and ceramics

### Benefits and key features

- o Water and oil repellency.
- o Chemical resistance.
- o UV protection.
- o Breathable coating.
- o Easy to clean.
- o Against salt, moss and algae deposits

### Instructions

The surface must be dry or have sufficient absorption capacity and free from dust, oil, grease and other contaminants.

The application should take place in a shaded and well-ventilated area.

It is recommended to mask off parts that are not to be coated (prevent fumes from escaping onto glassware!).

### Manual application

- o *\*It is recommended to apply a small area first before covering the entire surface.*

- o Spray the product in the required quantity the surface with a trigger bottle.

**Low pressure spraying** \* *It is recommended to be applied to the final product after the tests have been completed performed and the optimal parameters have been found.*

- o A nebulizer is preferred. A mouthpiece diameter of 1-2 mm is suitable.

- o The distance between the surface and the nozzle can be selected between 10-20 cm depending on the other parameters.

- o The spray pressure, if necessary, can be selected between 1-1.5 bar, depending on the other parameters.

- o The product must be sprayed onto the surface in the necessary quantity with a fine mist

- o When applying in this way, the wall does not need to be completely dry, as our coating will adhere well due to deep spraying.

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### Application tips

Make sure the temperature and relative humidity (RH) of the application area should be as close as possible to the given values to achieve the highest product performance. If the ambient temperature or the relative humidity value is higher than the suggested intervals/values, the product may cure faster than expected.

Avoid direct sunlight during application and only work on cool surfaces.

Shake the product gently before use.

Always test the product on a small area out of sight before working on a larger scale to ensure to observe compatibility with the material.

***If the product comes into contact with incompatible materials, wipe it off immediately with a dry and clean microfiber cloth. And ventilate the room/interior well during coating.***



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#### Bonding and curing

When the surface to be coated has sufficient absorption capacity (darkens when moistened) the coating will penetrate sufficiently in a short time and adhere. When the surface is lightened the drying process has started and the coating has 'settled'.

stress or subject to heavy contamination (even if the coating is force dried). After 24 hours, curing will continue for a while, but the coating will already perform optimally.

#### Areas of application

Suitable for various mineral substrates:

- **Natural & artificial stone:** Sandstone, limestone, granite, terrazzo, slate.
- **Concrete:** Slabs, paving stones, prefabricated elements (approx. 10-30 m<sup>2</sup>/litre).
- **Brick & masonry:** 20-30 m<sup>2</sup>/litre.
- **Roof tiles & tiles:** 15-25 m<sup>2</sup>/liter (roof tiles), 20-40 m<sup>2</sup>/liter (unglazed tiles).
- **Facades & plasterwork:** 15-30 m<sup>2</sup>/litre.

**Please note:** Not suitable for surfaces that already have a hydrophobic coating.

#### Technical Specifications

- **Form:** Colourless liquid.
- **Density:** Approx. 0.8 g/cm<sup>3</sup>.
- **Flash point:** 68°C.
- **Shelf life:** 24 months (when stored between +5°C and +30°C).
- **Odour:** Characteristic, not overpowering.

#### Storage

To achieve high quality of coating, containers should be kept tightly closed in a dry, well-ventilated area, away from sources of heat and ignition, stored at 0°C to

+30°C. The shelf life of the product is 2 years from the date of production, if stored in the unopened packaging recommended storage conditions. After opening the package it is recommended to use the product within 2 months.

#### Disclaimer

The technical information described in this document is based on tests and other practical experiences that NanoEnzo believes to be reliable. NanoEnzo cannot guarantee anything other than the ready-to-use quality of the product at the time of shipment. NanoEnzo

disclaims any liability for product performance and incidental or consequential damages, depending on the self-implementation within the knowledge of the user, outside the control of the manufacturer. Consult the Safety Data Sheet (SDS) before using the product.

Users should consult NanoEnzo for advice on the suitability of specific applications. NanoEnzo reserves the right to change the specified data to be changed without further notice.