

Technical Data Sheet

Stone & Concrete Coating - Z

Product Information

NanoEnzo Z formula has been developed for natural mineral surfaces to gain hydrophobic and oleophobic properties against common liquids and stains whilst giving easy-to-clean effect. It can be applied to a variety of mineral surfaces.

Application Surfaces

- Mineral Absorbent Surfaces
- Absorbent Natural Stones
- Concrete
- Painted Surfaces(hydrophilic)
- Roof, Wall & Floor Tiles
- Sculptures

Do not apply the product on surfaces including:

- Surfaces Treated with a Non-Absorbent Paint or Varnish
- Artificial Mineral Surfaces
- Thermosets & Thermoplastics
- Wooden Surfaces
- Glass& Ceramic

Benefits & Key Features

- Water and oil repellency.
- Chemical resistance.
- UV protection.
- Breathable coating.
- Easy to clean.

Instructions

Surfaces should be dry and free of any dust, oil, grease and other contamination.

Application should be made in a shaded and well-ventilated area.

Manual Application

*It is recommended to try on a small area before covering the entire surface.

- Spray the product onto the surface in the essential amount with a trigger bottle.

Pressurized Spraying

* It is recommended to apply it to the final product after the trials are made and the optimum parameters are found.

- Any type of spraying systems capable of applying homogeneously can be preferred. A nozzle diameter of 1-2 mm is suitable.

- The distance between the surface and nozzle can be chosen between 10-20 cm depending on the other parameters.
- Spraying pressure can be chosen between 1-1.5 bar depending on the other parameters.
- The product should be sprayed onto the surface in the essential amount with a fine atomization

Curing

Room Temperature Curing

Dry to touch: 6 h at 23°C - 50% RH

Fully curing: 24 h at 23°C - 50% RH

Accelerated Curing

It is possible to accelerate the curing process by applying heat by choosing the appropriate time and temperature according to the surface type.

Application Tips

Ensure that the temperature and relative humidity (RH) of the application space are as close as possible to the given values to achieve the highest product performance.

If the ambient temperature or relative humidity value is higher than the suggested intervals/values, the product may cure faster than expected.

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

Shake the product gently before use.

Always test the product on a smaller area out of sight before working on larger areas to observe further effects and compatibility with material(s).

If product contacts with incompatible materials, wipe it off immediately with a dry and clean microfiber cloth.

Ventilate the space/interior well for following hours of application.

The surface should look homogeneous after the application. If the coating has accumulated in some areas on the surface after application, you may not have been able to apply homogeneously.

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Pressurized Spraying

If the surface seems excessively wet after the application, you can;

- Decrease the flow rate
- Increase the spraying distance
- Increase the spraying pressure
- Expand the pattern
- Increase the line speed

If you couldn't apply enough amount and couldn't obtain a good repellency, you can;

- Increase the flow rate
- Decrease the spraying distance
- Decrease the spraying pressure
- Narrow down the pattern
- Decrease the line speed

Curing

When the coated surface is dry to touch, it can be handled/packed. Fully curing process will continue.

Even if you apply a heat treatment to accelerate the curing process, keep the coated surface away from water/contamination for 24 hours and don't perform harsh tests on it.

Durability

Up to 2 years

Specifications

Packaging	1-5-30 L
Appearance	Colorless Liquid
Chemical Resistance	11>pH>1
Dry Film Thickness	70-95 nm
Consumption per Unit Area	40-60 mL/m ²
Density @23°C	0.809 g/cm ³
pH Value	1.9-2.2
Breathability	Yes
Application Temperature	5°C-30°C (≤50% RH)
Temperature Durability	325°C
Water Contact Angle	130° @10 µL
Water Sliding Angle	13° @60 µL
Oil Contact Angle	85° @10 µL
REACH Compliance	Yes

Storage

To achieve a high quality of coating, keep the containers tightly closed in a dry, well ventilated space away from heat and ignition sources, stored at -3°C to +30°C. The shelf life of product is 24 months from the date of production when stored in the unopened container under suggested storage conditions. After opening the container, it is recommended to use up the product within 1 month.

Disclaimer

The technical information described in this document is based on tests and other practical experiences that NanoEnzo believes are reliable. NanoEnzo can not guarantee anything but the ready-to-use quality of the product at the time of shipment, and disclaims any liability for product performance and incidental or consequential damages, according to self-implementation within the user's knowledge, beyond the manufacturer's control. Please refer to the Safety Data Sheet (SDS) before the use of the product.

Users should consult NanoEnzo for guidance on the suitability of specific applications. NanoEnzo reserves the right to change the given data without further notice.