

### Product information

P45-Plus Renovation Coating in matte and gloss versions is a coating material that renews the appearance and restores the color of interior and exterior plastic and painted surfaces to which it is applied. It maintains its new appearance for up to 5+ years. Thanks to its water-repellent properties, it also helps keep the surface clean.

### Application surfaces

- Outside/inside plastic and painted surfaces
- Calcified windowsills, window frames
- Discolored paint surfaces or plastics

### Benefits and key features

- Water repellency.
- Chemical resistance.
- UV protection.
- Easy to clean.
- Scratch resistance.
- Innovation.

### Instructions

**The coating can be thinned with IPA (30%) to make it flow or level better.**

Surfaces must be dry and free of dust, wax, oil, grease, and other contaminants. (If necessary, wipe with a special cleaner.)

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

### Manual application

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

- Open the bottle and pour the required amount of product onto a Nanoenzo cotton cloth or polishing sponge
- Distribute the product homogeneously over the surface using linear movements.

### High pressure spraying

*\* It is recommended to apply it to the final product after the tests have been carried out and the optimal parameters have been found.*

- HVLP spray guns with a nozzle diameter of 0.8 mm are preferred
- The distance between the surface and the nozzle can be selected between 35-50 cm, depending on the other parameters
- Depending on the other parameters, a spray pressure between 5-6 bar can be selected
- The product should be sprayed onto the surface in the necessary quantity with a fine mist.

### Curing at room temperature

Touch dry: 2 hours at 23°C - 50% RH

Full curing time: 48 hours 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 depending on the surface type.

### Specifications

Packaging	1 liter
Appearance	Transparent liquid
Chemical resistance	12>pH>1
Saltwater resistance	Yes
Moisture resistance	Yes
Dry film thickness	700-1000 nm
Consumption per unit area (Manual application)	18 ml/ m <sup>2</sup>
Density @23°C	0.86 g/ cm <sup>3</sup>
pH value	5-6
Application temperature	5°C-30°C (≤50% RH)
Temperature resistance	-
Water contact angle	115° @ 10 µL
Water slide corner	° @ 60 µL
Oil contact angle	34° @ 10 µL
PFAS free	Yes
REACH compliance	Yes

### Sustainability

Normal conditions (-20°C to +35°C / pH<12)
5+ years

### Application tips

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

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

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

Prepare the surface with Nanoenzo Clean to improve the nanocoating's adhesion. Ensure no residual contamination remains and dry the surface with a lint-free microfiber cloth.

Shake the product gently before use.

### Manual application

Wear protective nitrile gloves before using the product.

To get the most out of the cotton cloth, fold it four times before applying it, and do not reuse the side of the fabric you used.

Gently distribute the product using linear motions. Do not rub.

Try not to apply too wet. The surface should look homogeneous after application. There should be no smudge marks on the surface.

#### **High pressure spraying**

The product should be applied with a fine mist. The surface should have a homogeneous appearance after application. There should be no haze or stains on the surface.

If after application you have a surface that looks too wet and therefore see dots/markings on the surface, you can;

- Reduce the flow rate
- Increase the spraying distance
- Increase the spray pressure
- Unfold the pattern
- Increase line speed

If you couldn't apply enough quantity and couldn't get good performance, you can do that;

- Increase the flow rate
- Reduce the spraying distance
- Reduce the spray pressure
- Limit the pattern
- Reduce the line speed

#### **Hardening**

When the coated surface feels dry, it can be handled/packaged. The full curing process will continue.

Even if you apply a heat treatment to accelerate the curing process, you should keep the coated surface free from water/contamination for 48 hours and do not perform any heavy testing on it.

#### **Storage**

To ensure high-quality coating, containers should be stored tightly closed in a dry, well-ventilated area away from heat and ignition sources, at temperatures between -3°C and +30°C. The product has a shelf life of 5 years from the date of manufacture if stored in unopened packaging under recommended storage conditions.

#### **Removal**

Once the product has hardened, it is very difficult to remove from the surface. In such a case, product removal can only be achieved by polishing with a special cutting agent.

#### **Indemnification**

The technical information described in this document is based on tests and other practical experience that Nanoenzo® believes to be reliable. Nanoenzo® cannot guarantee anything other than the product's ready-to-use quality at the time of shipment and disclaims all liability for product performance and for incidental or consequential damages resulting from self-implementation within the user's knowledge and beyond the manufacturer's control. Consult the Safety Data Sheet (SDS) before using this product.

Users should consult Nanoenzo® for advice on suitability for specific applications. Nanoenzo® reserves the right to change the information provided without notice.