

# Nanten EP W 2 Concrete Paint/Lacquer

Vapour permeable breathable concrete paint for premises  
with lower exposure to traffic



## PRODUCT TYPE

Nanten EP W 2 Epoxy Paint is a wear-resistant 2-component glossy water-based epoxy paint for old and new concrete floors. The coating contains no volatile organic compounds. The surface is hygienic and easy to clean. Painting supplies group 50 (RT-classification).

## APPLICATION

Storage rooms, basements, balconies, garages and similar applications with lower exposure to traffic. Can also be used for coating the floors built to the ground. Also suitable for painting wall surfaces, sheds, etc.

## PROPERTIES

The concrete paint is resistant to water, normal detergents, salts, and temporary exposure to mild acids and alkali. Resilience class BC1 (by54/BLY 12).

## TECHNICAL DATA

### Colours

Standard colours 257 and 241 of Nanten colour chart. Can also be stained according to the RAL chart. Colourless lacquer.

**Gloss level** Glossy.

### Material consumption

Mixture consumption approx. 1 litre per 4-6 m<sup>2</sup>/ two layers.

### Mixing ratio

(Part A) resin 1 parts by volume and (Part B) hardener 2 parts by volume.

### Package

In sets of 9 litres (3 l + 6 l) and 3 litres (1 l + 2 l).

### Application time (+ 20°C)

45 minutes when poured on the floor. While in the container and with higher temperatures the application time becomes shorter.

### Drying time

Dry to touch 5 h (+25°C) and 9 h (+15°C).  
Dry, durable to light traffic in approx. 12 h (+ 25°C) and approx. 24 h (+ 15°C). Fully cured, 7 days.

## Application method

Spread with a short-hair roller, brush or a trowel. Wall surfaces can be painted with a high-pressure spray.

## Dilution

Dilute with approx. 20% of warm water for priming. Do not dilute for coating work.

## Cleaning of tools

Wash the tools with water or synthetic detergent.

## Storage

+ 5°C ...+ 25°C, max. storage time 12 months. Store in a warm room, in tightly sealed original containers.

## TECHNICAL PROPERTIES

**Film thickness** About 200 µm (DFT).

### Density (+ 25°C)

Compound density 1.04... 1.21 kg/ l.

**Solids volume content** About 46%vol.

**Final hardness** Shore D 71.

**VOC (calculated)** VOC in application mixture 0 g /l. EU VOC 2004/42/EC (cat A/j) max. 140 g/l (2010).

## DIRECTIONS FOR USE

### Requirements to the base and coating conditions

Requirements to the base and coating conditions Concrete strength class should be at least C25/C30 and wear resistance class 3. Concrete relative humidity should be below 98 % and surface temperature at least 3°C above dew point. Air, surface and coating temperature should be over + 10 °C during the coating application and drying and relative humidity below 80%. Make sure that the paint is suitable for the base to be coated.

### Surface preparation

#### New concrete floor

Remove laitance and any non-cured cement by surface grinding or shot-blasting. All loose material which lowers adhesion should be cleared away and cement dust carefully removed with a vacuum cleaner.

### Old concrete floor

Remove laitance and any concrete that is in poor condition by surface grinding or shot-blasting. All loose material which lowers adhesion should be cleared away and the substrate carefully cleaned with a vacuum cleaner. Soiled floors should be washed and rinsed with synthetic detergent before any works on the substrate. Remove completely any old films of paint in the substrate.

### Priming

For priming use Nanten EP W 2 Concrete Paint diluted with warm (about 30°C) water. The primer should seal all the pores in the concrete and form a uniform tight and intact film on the surface.

### Filling

Small dents and cracks are cleaned and filled with putty consisting of e.g. HM Epoxy and fine sand.

### Mixing the components

First stir part A and part B of EP W 2 Epoxy in their own containers, calculate the required amount of ready mixture, considering the surface area to be coated and the mixture application time. Mix the components into one another in the correct ratio of parts by volume, and continue stirring carefully with a mechanical mixer at low speed for about two minutes, avoid mixing any air into the compound. For the primer add the water last after mixing the components and then continue mixing for about 2 minutes.

### Coating

If the primer was applied more than two days ago, the surface should be roughened by sanding and sanding residues should be removed. Coat with EP W 2 Concrete Paint without diluting the product. First stir part A and part B of EP W 2 Epoxy in their own containers, calculate the required amount of ready mixture, considering the surface area to be coated and the mixture application time. Mix the components into one another in the correct ratio of parts by volume, and continue stirring carefully with a mechanical mixer at low speed for about two minutes, making sure no air is mixed into the compound.

The mixed compound is poured on the floor as a bound or continuous trail, and spread with roller or rubber trowel plus roller.

**Care of the coated floor:** See [www.nanten.fi / products / cleaning and care instructions](http://www.nanten.fi/products/cleaning-and-care-instructions).

**APPLICATION SAFETY:** See [www.nanten.fi / products / material safety data sheets](http://www.nanten.fi/products/material-safety-data-sheets).

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0809 -CPR- 1037 EN 1504-2:2004		
Protection and repair agent for concrete structures – Coating		<b>EP W2</b> Measured values
Wear resistance Weight loss	< 3000 mg	93 mg /l.
Capillary absorption and water permeability	w < 0.1 kg/m <sup>2</sup> x h0.5	0.04 kg /l.
Impact resistance	Class II ≥ 10Nm	10 Nm
Adhesion strength in tensile test	≥ 2,0 N/mm <sup>2</sup>	3,0 N/mm <sup>2</sup>
Fire behaviour		NPD
Vapour permeability	Class I < 5m	0.73 m

Although the technical specifications of the product description are based on our best knowledge and experience, all the above information must be taken as a guide in all cases. The user must ensure the suitability of the product for the application area. If the instructions are not followed, the user is solely responsible for the possible damages and consequences