Hämeenkatu 9
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www.fescon.fi

# NANTEN PU W2 PAINT AND VARNISH




### Product description

Water-based polyurethane paint for protection of concrete floors and maintenance painting of floor surfaces.
- Water vapor permeable paint
- Very fast drying
- Low emission

### Applications

- Areas subject to medium and light-duty wear
- Basements and storage areas
- For finishing the coating surface

### Instructions

## Base requirements and coating conditions

The concrete strength class must be at least C25/30 with a wear resistance class of 3. The relative humidity of the concrete must be below 98%, and the surface temperature must be at least +3°C above the dew point. During application and curing, the temperature of the air, surface, and coating must remain above +15°C, and the relative humidity of the air must be below 80%. Always ensure the suitability of the coating for the intended substrate.

## New concrete floor

Cement laitance and any uncured cement must be removed by surface grinding. All loose and adhesion-reducing material must be removed, and the surface must be thoroughly vacuumed to remove all cement dust.

## Old concrete floor

Cement laitance and deteriorated concrete must be removed by grinding. All loose and adhesion-reducing material must be removed, and the surface must be thoroughly vacuumed. Dirty floors should be washed and rinsed with a synthetic detergent before any further surface preparation. Any existing old paint film must be completely removed from the substrate.

## Patching

Small holes and cracks must be cleaned and filled with an epoxy filler prepared from Nanten HM Bio Epoxy and fine filler sand. Larger overfills/levelling can be done with a cement-based screed that has sufficient adhesion (>1.5 MPa) and strength (>25 MPa).

## Mixing

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Pre-mix the components to a uniform consistency in their own containers. Combine components A and B in the correct ratio and mix thoroughly with a low-speed mixer for approx. 2–3 minutes. The product must not be diluted.

## Mixing ratio

Part A: 6 parts by volume
Part B: 1 part by volume
Densities: Part A approx. 1.2–1.3 kg/l (paint) and 1.03 kg/l (varnish). Part B approx. 1.15 kg/l

## Coverage

Mixture: approx. 0.10–0.14 l/m$^2$ per coat. Approx. 50 m$^2$ per 7-litre batch.

## Application instructions

Nanten PU W2 is applied by cross-rolling to form a uniform and even film on the substrate, using, for example, a microfiber roller. Finish the surface by rolling in one direction only, ensuring that each stroke goes the same way. Consider natural light when choosing the rolling direction. Make sure the wet edge is maintained and that no dry edges form — this helps prevent roller marks in the final surface. Estimate the required amount of mixture based on the size of the area to be treated and the working time of the product.

### Waste handling

Storage and handling of waste
See the separate storage and disposal instructions https://www.fescon.fi/en/material-bank

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# Technical information

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|---|---|
| **Colour** | Tintable according to the Nanten and RAL color charts. The varnish is colorless. |
| **Package size** | Part A: 6 litres, Part B: 1 litre |
| **Storage** | +5°C to +25°C, shelf life up to 6 months. Must be stored in a warm location in tightly sealed original containers. Protect from freezing. |
| **Mixing time** | Approx. two minutes |
| **Solid volume** | Approx. 55 vol-% |
| **Usage temperature** | +15°C…+25°C |
| **Usage time** | Once poured onto the floor: approx. 40–50 minutes. When kept in the container or at elevated temperatures, the working time is reduced. |
| **Drying time** | Touch-dry in approx. 3 h (+25°C) and 5-6 h (+15°C). Resists light traffic after approx. 16 h (+25°C) and 24 h (+15°C). Fully cured in 7-14 days (+20°C). |
| **Tensile strength** | > 1,5 MPa ($N/mm^2$) |
| **Relative air humidity** | Below 80% during application and curing of the coating |
| **Thinner** | Do not dilute |
| **Method of application** | Applied with a roller |
| **VOC content** | < 9 g/l (ready-to-use mixture)EU VOC 2004/42/EC (Cat A/j) max. 140 g/l (2010) |
| **GWP A1 raw material** | 3.02 (A-base), 2.05 (C-base and varnish) |
| **GWP A2 transport** | 0.17 (A-base), 0.177 (C-base and varnish) |
| **GWP A3 manufacturing** | 0.896 (A-base), 0.965 (C-base and varnish) |
| **GWP A1-A3** | 4.09 (A-base), 3.64 (C-base and varnish) |
| **GWP A4 transport** | 0.0331 (A-base), 0.0336 (C-base and varnish) |
| **GWP A5 assembly** | 0.129 (A-base), 0.126 (C-base and varnish) |
| **GWP unit** | kg CO2e/kg |

Remember to consult the Maintenance Instructions for Coated Floors and the product Safety Data Sheet on our website at www.fescon.fi, or request a copy by calling +358 9 274 7970. Although the technical details provided in this product description are based on our best knowledge and experience, the information above should always be regarded as indicative. The user is responsible for verifying the suitability of the product for the intended application. If the instructions are not followed, the user assumes full responsibility for any resulting damage or consequences. Limitation of liability, product use notes and restrictions: Please familiarize yourself with Fescon Oy's general terms of delivery and the design and work instructions related to the product.