

Nanten PU W 1 Paint and Lacquer

Single-component extremely fast drying polyurethane lacquer and paint

PRODUCT TYPE

Nanten PU W 1 is a single-component water-diluted polyurethane lacquer and paint for old and new concrete floors. Contains no volatile organic compounds (VOC). The surface is easy to clean and the paint has good UV resistance. PU W 1 Polyurethane paint is permeable to water vapour. Painting supplies group 51.3 (RT-classification).

APPLICATION

Floors exposed to light stress, such as basement rooms, balconies, garages and similar applications. Breathable PU W 1 polyurethane paint is suitable for moist base, concrete structures connected to the ground and for premises exposed to seeping capillary moisture.

PROPERTIES

Extremely fast drying polyurethane paint, which is safe to use. Resistant to oil, grease, fuels, normal detergents and salts. Provides the base with efficient block against absorption of water and impurities. Resilience class BC1 (by54/BLY 12).

TECHNICAL DATA

Colours

Standard colours 257 and 265. Can be stained with the colours of Nanten colour chart PU W 1 /RAL colours. Colourless lacquer.

Gloss level Matt.

Material consumption

Consumption approx. 0.25 l /m² for two layers.

Mixing ratio -

Package

Delivered in 5 l plastic containers and in 2.7 l and 9 l cans.

Application time (+20°C) No restrictions.

Drying time

Dry in 3 h (+ 25°C) and 5 h (+ 15°C). Can be taken into use in 8 h (+ 25°C) after painting.

Final wear resistance (hardness) in approx. 7 days.

Working method

Spread with a flutex trowel, roller or a brush.

Dilution

The Paint can be diluted with water by 0 - 30 %. If applied with a roller, the Lacquer should be diluted by 10-20%.

Cleaning of tools Water

Storage

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

TECHNICAL PROPERTIES

Film thickness approx. 80-100 µm (DFT).

Density (+ 25°C)

Paint 1.16 – 1.23 kg /l, Lacquer 1.05 kg /l.

Solids volume content About 55%vol.

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

Surface requirements and application 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 paint temperature should be over +15°C and relative humidity below 80% during the coating application and drying. 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.

Filling

Clean small dents and cracks and fill with putty consisting of e.g. HM Epoxy and fine sand. Larger and more extensive filling/levelling can be performed with a cement-based levelling compound, which has sufficient adhesion (> 1.5 MPa) and strength (> 25 MPa).

Mixing

Mix the lacquer / paint carefully, using a mechanical mixer. Close the container tightly between uses.

Coating

Mixed lacquer/paint is spread with a flotex trowel or mohair roller. In order to avoid uneven drying, make sure that the layer is not too thick. Apply the second layer crosswise after the first layer has dried. Consumption with two layers is approx. 0.25 l / m².

Care of the coated floor: See www.nanten.fi / products / cleaning and care instructions.

APPLICATION SAFETY: See www.nanten.fi / products / material safety data sheets.

CE		
Nanten Oy Teollisuustie 6, FI-04300 Tuusula		
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0809-CPR-1037		
<u>EN 1504-2:2004</u> Protection and repair agent for concrete structures –		PU W1 Measured values
Wear resistance	Weight loss < 3000 mg	99 mg /l.
Capillary absorption and water permeability	w < 0.1 kg/m ² x h0.5	0.02 kg /l.
Impact resistance	Class I: ≥ 4	4.5 Nm
Adhesion strength in tensile test	≥ 2,0 N/mm ²	3,1 N/mm ²
Fire behaviour		NPD
Vapour permeability	Class I < 5m	0.42 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