Hämeenkatu 9
05800 HYVINKÄÄ
Tel. 020 789 5900
www.fescon.fi

NANTEN EP W2 PAINT AND VARNISH



Product description

Water-based, wear-resistant epoxy paint for old and new concrete floors. Emission class M1 for building materials (for floor use).

- The epoxy paint is resistant to water, common cleaning agents, salts and under temporary exposure, diluted acids and alkalis
- Gloss level: glossy
- Coverage: approx. 4–5 m^2 per litre / two coats, depending on substrate porosity

Applications

- Storage and basement areas with lighter wear
- Heating distribution rooms
- Garages
- Also suitable for painting wall surfaces

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 +10°C, and the relative humidity (RH) of the air must be below 80%. Always ensure the suitability of the paint 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.

Priming

For priming, add warm water (approx. +30°C) at 10–20% as the final component after mixing Parts A and B. Continue mixing for approximately 2 minutes. The water should be added in a continuous stream while mixing. The primer must seal all pores in the concrete to form a dense and continuous film on the surface.

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Patching

Small holes and cracks are cleaned and filled with an epoxy putty made of for example, HM Epoxy and fine filler sand.

Mixing

Pre-mix Part A and Part B of EP W2 Epoxy in their own containers. Estimate the required amount of mixture based on the size of the area to be treated and the working time of the product. Combine the components in the correct volume ratio and mix thoroughly with a low-speed mechanical mixer for approximately two minutes, avoiding air entrapment in the mixture. For priming, add water as the final component after mixing and continue mixing for approximately 2 minutes.

Coverage

Coverage is approximately 4–5 m^2 per litre / two coats, depending on the porosity of the substrate.

Application instructions

If the priming is older than two days, the surface must be roughened by sanding and all sanding dust must be removed. The coating is applied using undiluted EP W2. Pre-mix Part A and Part B of EP W2 in their own containers. Estimate the required amount of mixture based on the size of the area to be treated and the working time of the product. Combine the components in the correct volume ratio and mix thoroughly with a low-speed mechanical mixer for approximately three minutes, avoiding air entrapment in the mixture. Pour the mixture onto the floor in a puddle or continuous bead, then spread with a roller or rubber squeegee followed by back-rolling.
Insufficient mixing may cause uneven curing or color variation in the finished surface. Do not scrape any remaining material from the sides of the container onto the floor.

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

Colour	Standard shade 257 from the Nanten color chart. The topcoat is colorless.
Painting supplies group (paintingRYL2012)	50 (RT classification) / Paint materials group 653
Tintability	Can be tinted according to the Nanten and RAL color charts
Package size	Available in 9-litre sets (3 l + 6 l)
Storage	+5°C to +25°C, shelf life up to 6 months. Must be stored in a warm location in tightly sealed original containers.
Mixing time	Approximately two minutes
Usage temperature	+15°C...+25°C
Usage time	Poured onto the floor: approx. 45 minutes. Working time decreases as temperature rises.
Drying time	Touch-dry in 5 h (+25°C) and 9 h (+15°C). Resists light traffic after approx. 12 h (+25°C) and approx. 24 h (+15°C). Fully cured in 7 days.
Adhesion strength	> 1.5 N/mm^2
Exposure class	BC1 (by54/BLY 12) / RL 03 (PaintingRYL 2012)
Water vapour permeability	Class I < 5 m
Relative air humidity	Below 80% during application and curing of the coating
Chemical resistance	Class II
Thinner	For priming, dilute with warm water by approx. 20%. Do not dilute for coating application.
Method of application	Applied with a short-nap roller, brush, or trowel. For painting wall surfaces, airless spray application can also be used.
VOC content	< 93 g/l (ready-to-use mixture)EU VOC 2004/42/EC (Cat A/j) max. 500 g/l (2010)
Washing tools	Tools can be cleaned with water or synthetic detergent
GWP A1 raw material	3.81 (A-base), 3.52 (C-base and varnish)
GWP A2 transport	0.365 (A-base), 0.352 (C-base and varnish)
GWP A3 manufacturing	0.84 (A-base), 0.987 (C-base and varnish)
GWP A1-A3	5.02 (A-base), 4.86 (C-base and varnish)
GWP A4 transport	0.0334 (A-base), 0.0236 (C-base and varnish)

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GWP A5 assembly	0.105 (A-base), 0.104 (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.