Hämeenkatu 9
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NANTEN PU W1 PAINT AND VARNISH



Product description

Water-based polyurethane paint and varnish for old and new concrete floors or as a top layer of coatings.
- Very fast drying paint
- Resistant to oils, fats, fuels, normally used detergents and salts

Applications

- Areas subject to lighter stress
- Technical facilities, IV machine rooms
- Schools, kindergartens
- Offices
- Stores

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.

Priming

Priming is done with thinned PU W1.

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

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sufficient adhesion (>1.5 MPa) and strength (>25 MPa).

Mixing

Mix the varnish/paint thoroughly using a mechanical mixer. Reseal the container tightly between uses.

Coverage

Approx. 0.25 l/m^2 in two coats.

Application instructions

The mixed varnish/paint is applied using a flotex trowel or a mohair roller. Avoid forming an excessively thick film to ensure even drying. The second coat should be applied by cross-rolling after the first coat has dried.
Note the product's very fast drying time — avoid application when the substrate or ambient air temperature exceeds +30°C. On porous, absorbent substrates, the paint/varnish must be sufficiently diluted with water.

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	Tintable according to the Nanten and RAL color charts. The varnish is colorless.
Painting supplies group (paintingRYL2012)	652
Gloss group	Matte
Package size	In a 9 l metal container
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	Approx. two minutes
Density	Paint: 1.16–1.23 kg/l, Varnish: 1.05 kg/l
Solid volume	Approx. 55 vol-%
Usage temperature	+15°C…+25°C
Usage time	No restrictions
Drying time	Dry in 3 h (+25°C) and 5 h (+15°C). Ready for use approx. 8 h after painting at +25°C. Fully cured after 7 days.
Tensile strength	> 1,5 N/mm2
Reaction to fire	Cfl-S1
Exposure class	RL 03, RL 04 (PaintingRYL 2012)
Water vapour permeability	Class I
Relative air humidity	Below 80% during application and curing of the coating
Chemical resistance	Class II
Thinner	Paint can be diluted with 10–25% water. Varnish is diluted with 10–15% water.
Method of application	Applied with a flotex trowel, roller or brush
VOC content	110 g/l (ready-to-use mixture)EU VOC 2004/42/EC (Cat A/j) max. 140 g/l (2010)

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.