Hämeenkatu 9
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NANTEN SL W

Product description

2-component, M1-classified, self-levelling, water vapor permeable epoxy coating.

- Water vapor permeable (Class I <5 m)
- Resistant to water, common cleaning agents, salts, and, under temporary exposure, diluted acids and alkalis
- Low-emission

Applications

- Public spaces subject to light and medium-duty wear
- Schools and daycare centers
- Healthcare facilities
- Basement areas
- Ground-supported floors

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 95%, 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. 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, shot blasting, or milling. All loose and adhesion-reducing material must be removed, and cement dust must be thoroughly vacuumed from the surface.

Old concrete floor

Cement laitance and deteriorated concrete must be removed by grinding, shot blasting, or milling. 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 on the substrate must be completely removed.

Priming treatment

Priming is done with Nanten SL W Epoxy Coating thinned with warm water (approx. +30°C). 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 a putty made of, for example, SL W Epoxy Coating and fine filler sand.

Mixing

Pre-mix Part A and Part B of SL W 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 (2) minutes, avoiding air entrapment in the mixture. For priming, add water as the final component after mixing. Continue mixing for another two minutes.

Mixing ratio

Part A: 1 parts by volume, Part B: 2 part by volume
Filler sand quantity: approx. 17,5-20 kg (approx. 11-12,5 l) of sand per 9 l batch of epoxy.
As filler sand, a ready-mixed epoxy filler sand blend can be used, or alternatively, add to the resin mixture 60 vol-% quartz sand with a grain size of 0.20 mm and 40 vol-% quartz sand with a grain size of 200 mesh (0.075 mm). Add the coarser filler sand first.

Coverage

As primer: 0.2–0.25 l/m^2
As binder in the coating mortar:
Film thickness 1 mm: approx. 0.6 l/m^2
Film thickness 2 mm: approx. 1.1 l/m^2

Application instructions

If the priming is older than 48 hours, the surface must be roughened by sanding. Pour the mixture onto the primed floor in a continuous bead and spread with a notched trowel to the desired layer thickness (approx. 1–2 mm). If necessary, finish the surface with a roller. To ensure a uniform color finish, the surface is recommended to be painted with EP W2 or PU W2 paint.
Note! Inadequate mixing of the epoxy coating may result in uneven curing, and an incorrect mixing ratio may cause the product to remain uncured.
Do not scrape material from the sides of the container onto the floor. To avoid variations in surface quality, the application and curing conditions must meet the specified requirements throughout the process.

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. 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...+25°C, maximum shelf life 12 months. Store in a warm environment, sealed in original containers.
Mixing time	Approx. three minutes
Density	1.2 kg/l
Solid volume	Approx. 46 vol-%
Usage temperature	+15°C…+25°C
Usage time	Poured onto the floor: approx. 30 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.
Tensile strength	>1.5 N/mm^2
Reaction to fire	Bfl-S1
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 the mixture for coating application.
Method of application	Roller (priming) / Notched trowel (coating compound)
VOC content	< 30 g/l (ready-to-use mixture)EU VOC 2004/42/EC (Cat A/j) max. 140 g/l (2010)
GWP A1 raw material	3.81 (A-base), 3.52 (C-base)
GWP A2 transport	0.365 (A-base), 0.352 (C-base)
GWP A3 manufacturing	0.84 (A-base), 0.987 (C-base)
GWP A1-A3	5.02 (A-base), 4.86 (C-base)
GWP A4 transport	0.0334 (A-base), 0.0236 (C-base)
GWP A5 assembly	0.105 (A-base), 0.104 (C-base)
GWP unit	kg CO2e/kg

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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.