

Hämeenkatu 9
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www.fescon.fi

Updated 19.12.2025 Printed 23.6.2026

NANTEN SL BIO LOW VOC



Product description

Solvent-free, self-leveling epoxy coating. Extremely low VOC emissions into indoor air.

- Good mechanical strength and UV resistance
- Emission class for building materials: M1



Applications

- Public spaces subject to heavy and medium-duty wear
- Laboratories
- Hospitals
- Schools and daycare centers
- Offices
- Shops
- Warehouses and logistics centers

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.

New concrete floor

Cement laitance and any uncured cement must be removed by surface grinding or shot blasting. 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 or shot blasting. 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 carried out using undiluted Nanten HM Bio Low VOC. 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 must be cleaned and filled with an epoxy filler prepared from Nanten HM Bio Low VOC and fine filler sand. Larger and more extensive leveling or overfilling can be done using a filling/leveling compound made from Nanten SL Bio Low VOC and filler sand (grain size e.g. 0.1–0.6 mm).

Mixing

Pre-mix Part A and Part B of SL Bio Low VOC in their own containers. Estimate the required amount of mixture based on the size of the area and the working time. Combine the components in the correct ratio and mix with a low-speed mixer for approximately two minutes, avoiding air entrainment. Add the required amount of dry filler sand while mixing. Continue mixing for about one more minute. Ensure that material on the sides and bottom of the container is thoroughly mixed.

Mixing ratio

Part A: 3 parts by volume, Part B: 1 part by volume
(Filler sand approx. 15 kg / 20 l)

Coverage

At 2 mm film thickness: 2 l/m²
With added filler sand (1.5 kg/m²): 1.3 l/m²

Application instructions

If the primer has cured for more than two days, the surface must be roughened by sanding and sanding residues removed. The mixed compound is poured onto the floor in a puddle or continuous bead and spread with a smoothing trowel to the desired thickness. As work progresses, the surface is back-rolled with a spiked roller to remove air bubbles.

Note: Inadequate mixing of the epoxy coating may result in uneven curing, and an incorrect mixing ratio may prevent the material from curing at all. Do not scrape and apply material from the sides of the mixing 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	Can be tinted according to Nanten and RAL colour charts
Package size	Part A: 15 l in a metal container, Part B: 5 l in a plastic 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	Approximately two minutes
Solid volume	Approx. 100 vol.%
Usage temperature	+15°C...+25°C
Usage time	Poured onto the floor: approx. 20–30 minutes. Working time decreases as temperature rises.
Drying time	Touch-dry in 4 h (+25°C) and 8 h (+15°C). Resists light traffic after approx. 12 h (+25°C) and approx. 24 h (+15°C). Fully cured in 7 days (+20°C)
Relative air humidity	Below 80% during application and curing of the coating
Chemical resistance	Class II
Thinner	Do not dilute (solvent-free M1-rated product)
Method of application	Apply with a smoothing trowel or notched steel trowel
VOC content	< 100 g/l (ready-to-use mixture)EU VOC 2004/42/EC (Cat A/j) max. 500 g/l (2010)
GWP A1 raw material	3.57
GWP A2 transport	0.176
GWP A3 manufacturing	0.595
GWP A1-A3	4.34
GWP A4 transport	0.0315
GWP A5 assembly	0.127
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.