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## NANTEN SL BIO AR



### Product description

2-component, solvent-free, self-leveling epoxy coating with excellent chemical resistance.

- Resistant to continuous exposure to oils, greases, fuels, commonly used detergents, and salts, and to temporary exposure to most acids and alkalis used in industrial environments

### Applications

- Areas subject to heavy chemical and mechanical stress
- Process and food industry
- Production and storage facilities
- Laboratories
- Hospitals

### 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, 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

Priming is carried out using Nanten HM Bio Epoxy. On damp concrete substrates with a relative humidity above 95%, Nanten M Primer suitable for moist concrete must be used. The primer must seal all pores in the concrete to form a continuous, unbroken film.



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## 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 and more extensive leveling or overfilling can be done using a filling/leveling compound made from Nanten SL Bio Epoxy coating and filler sand (grain size e.g. 0.1–0.6 mm).

## Mixing

Pre-mix components A and B of the SL Bio AR Epoxy coating in their own containers. Estimate the required amount of mixture based on the size of the area and the working time of the mixture. 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 minute, ensuring that the container corners are properly mixed.

## Mixing ratio

Part A: 3 parts by volume

Part B: 1 part by volume

## Coverage

At 2–4 mm film thickness: 1.4–2.4 l/m<sup>2</sup>

Consumption at 2 mm film thickness: approx. 1.3 l of epoxy and approx. 1 kg of filler sand per m<sup>2</sup>

## Application instructions

If the primer has cured for more than two days, surface sanding and removal of sanding residues is required. The mixed compound is poured onto the floor in a puddle or continuous bead and spread with a notched 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

<b>Colour</b>	Can be tinted according to Nanten and RAL colour charts
<b>Package size</b>	Part A: 15 l in a metal container, Part B: 5 l in a plastic container
<b>Storage</b>	+5°C to +25°C, shelf life up to 6 months. Must be stored in a warm location in tightly sealed original containers.
<b>Mixing time</b>	Approximately two minutes
<b>Density</b>	Binder density: 1.06 kg/l
<b>Solid volume</b>	Approx. 100 vol.%
<b>Usage temperature</b>	+15°C...+25°C
<b>Usage time</b>	Poured onto the floor: approx. 20-30 minutes. Working time decreases as temperature rises.
<b>Drying time</b>	Touch-dry in 6 h (+25°C) and 11 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).
<b>Adhesion strength</b>	1.5 N/mm <sup>2</sup>
<b>Reaction to fire</b>	Bfl-S1
<b>Relative air humidity</b>	Below 80% during application and curing of the coating
<b>Chemical resistance</b>	Class II
<b>Thinner</b>	Do not dilute
<b>Method of application</b>	Apply with a notched steel trowel or smoothing trowel
<b>VOC content</b>	200 g/l (ready-to-use mixture) EU VOC 2004/42/EC (Cat A/j) max. 500 g/l (2010)
<b>GWP A1 raw material</b>	3.57
<b>GWP A2 transport</b>	0.176
<b>GWP A3 manufacturing</b>	0.595
<b>GWP A1-A3</b>	4.34
<b>GWP A4 transport</b>	0.0315
<b>GWP A5 assembly</b>	0.127
<b>GWP unit</b>	kg CO <sub>2</sub> e/kg

Remember to consult the Maintenance Instructions for Coated Floors and the product Safety Data Sheet on our website at [www.fescon.fi](http://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

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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.