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NANTEN COLORPUR 6-9 MM

CE



Product description

3-component hybrid polyurethane–cement coating. The product is certified with the Eurofins Indoor Air Comfort Gold certificate.
- High resistance to heat, chemicals, and mechanical stress
- Excellent resistance to hot water and continuous exposure to moisture
- Textured surface finish reduces slipperiness
- Low-emission

Applications

For the food, beverage, and chemical industries, especially in applications requiring high resistance to chemicals and organic acids, and where the floor is exposed to hot water and steam cleaning.
- Food, beverage, and chemical industry facilities
- Breweries
- Dairies
- Highly demanding industrial environments

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%.

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, 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 must be completely removed from the substrate.

Anchor grooves

Anchor grooves must be made in accordance with the manufacturer’s instructions. They shall be installed along the edges of the area to be coated and around penetrations as well as columns or posts. The depth and width of the anchor groove should be twice the thickness of the coating.

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Priming

Priming is carried out using Nanten ColorPur Primer. The primer must seal all pores in the concrete to form a dense and continuous, unbroken film on the surface. If necessary, adhesion sand is broadcast onto the primer to improve the workability of the coating.

Mixing

Liquid components A and B are poured into the mixing bucket and mixed mechanically for 30 seconds. Ensure the containers are completely emptied before mixing. Add the pigment. Once the liquid resin mixture is uniform, add half of component C and mix for approximately 1 minute until the mixture is homogeneous. Make sure the first half of component C is fully blended with the resin. Then repeat the process by adding the remaining half of component C. Mixing time may vary slightly depending on the ambient and material temperatures. Once the mixture is smooth and free of lumps, immediately bring the material to the application area.

Notes

The components must be mixed mechanically. The ideal ambient and installation temperature range is between +12°C and +25°C. It is important to take the dew point into account to prevent moisture formation in the primer. The installation instructions must be read carefully before coating.

Application instructions

Apply the coating to the desired thickness using, for example, a notched trowel, and finish the surface with a spiked roller.
To achieve a textured surface, broadcast quartz sand onto the wet coating. The grain size of the sand determines the slip resistance class. Once the coating has cured, remove the excess quartz sand by brushing and/or vacuuming. Nanten ColorPUR Topcoat is applied (0.6–0.8 kg/m^2) with a rubber trowel and finished with a roller.

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	Grey, cream, ochre, red, and green. Matt finish.
Package size	Component A 2.5 kg polyol emulsion, component B 2.6 kg polyisocyanate, component C 26.4 kg fillers, total set 31.5 kg. Pigment: 0.300 kg. Component C is also available pre-pigmented as a custom order (minimum order quantity: 4000 kg).
Storage	Unopened packaging: 6 monthsAll components of the Nanten ColorPUR system must be stored under cover and off the ground, in a dry space at temperatures above +5°C and below +25°C. This is especially important for component C, which may cure and clump, rendering it unusable. Protect all components from freezing, including during transport.Direct sunlight or other strong heat sources can cause uneven temperature rises in stored materials. Such products must not be used until their temperature has stabilized, as uneven curing may occur during application.
Mixing time	Approx. 2 minutes. Mixing time may vary slightly depending on ambient and material temperatures.
Density	2.19 kg/cm^3
Usage temperature	+12°C...+25°C
Usage time	Once poured onto the floor: approx. 15 minutes. Working time shortens as temperature increases.
Drying time	Foot traffic 8 h, mechanical load 24 h, full chemical resistance 7 days
Compressive strength	60 N/mm^2
Adhesion strength	B2 > 2 N/mm^2
Tensile strength	7 N/mm^2
Flexural bond strength	16 N/mm2
Reaction to fire	Bfl-s1
Heat resistance	6 mm -20°C to +90°C 9 mm -20°C to +120°C Thermal expansion coefficient: 1.4 × 10^5 /°C
Relative air humidity	< 80%
Chemical resistance	Class II
Method of application	Apply the coating to the desired thickness using, for example, a notched trowel, and finish the surface with a spiked roller.

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Washing tools	Clean tools immediately after use with Nanten PU Thinner

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.