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NANTEN F PRIMER



Product description

Fast-drying epoxy primer for priming dry concrete substrates. Used in combination with Nanten HM Part A.

- Primer with excellent penetration into concrete pores and strong adhesion
- Solvent-free

Applications

- Developed as a fast primer for concrete floors in conjunction with epoxy and polyurethane coatings
- Public spaces
- Industry

Instructions

Base requirements and coating conditions

The strength class of the concrete must be at least C25/30 and the wear resistance class 3. The relative humidity of the concrete must be below 95% and the surface temperature must be at least +3^{0}C above dewpoint. During the drying of the coating, the temperature of the ambient air, the surface and the coating must be over +15^{0}C and relative humidity must be below 80%.

New concrete floor

Laitance and any uncured cement are removed by either surface grinding or shot blasting. All loose material that could negatively affect adhesion is removed, and cement dust is carefully vacuum-cleaned.

Old concrete floor

Laitance and damaged concrete are removed by grinding or shot blasting. All loose material that could negatively affect adhesion is removed, and the base is carefully vacuum-cleaned. Dirty floors should be washed and rinsed with synthetic detergent before performing any other base treatment work. Any old coat is removed completely.

Patching work

Small cavities and cracks are cleaned and filled with e.g. epoxy paste mixed from Nanten HM Bio and fine back sand. Larger and wider overfills, straightening and slopes can be made with a compound made of HM Bio and back sand (0.1–0.6 mm).

Mixing

Pre-mix Nanten HM Bio Part A and F Primer Part B separately in their original containers. Estimate the required amount of mixed material based on the size of the area to be treated and the pot life of

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the mixture. Combine the components in the correct ratio and mix with a low-speed mixer for approximately two minutes, avoiding air entrapment in the mixture.

Mixing ratio

HM Part A: 10 parts by volume
F Primer Part B: 2.5 parts by volume

Spreading rate

Depending on the porosity of the concrete, 0.25–0.35 l/m^2. Porous surfaces may require a second application to ensure all pores are sealed and a uniform, continuous film is achieved.

Application instructions

The mixed F Primer should be poured onto the floor in a continuous ribbon and spread evenly using a rubber squeegee and/or roller. If necessary, apply a second coat after approximately 3–5 hours, but no later than 24 hours after the initial priming. If a trowel-applied coating will be used, broadcast adhesion sand onto the fresh primer to improve the workability of the topping. Ensure proper ventilation in the working area. The primer must seal all pores in the concrete and form a tight, uniform, and continuous film on the surface. Do not scrape or use the remaining material from the container walls 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	Colorless
Package size	HM part A in a 10 l metal container, F Primer part B in a 5 l plastic container
Storage	+5°C to +25°C, shelf life up to 12 months. Must be stored in a warm location in tightly sealed original containers.
Mixing time	Approx. two minutes
Density	1.1 kg/l
Usage temperature	+15°C...+25°C
Usage time	Poured onto the floor: approx. 13–15 minutes. Working time decreases as temperature rises.
Drying time	Touch-dry in approx. 4 h (+25°C) and 8 h (+15°C). Fully dry in approx. 10 h (+25°C) and 12 h (+15°C).
Reaction to fire	Efl
Relative air humidity	Below 80% during application and curing of the coating
Thinner	F Primer is not normally thinned
Method of application	Application with rubber squeegee and/or roller and brush
VOC content	< 1 g/l (ready-to-use mixture)EU VOC 2004/42/EC (Cat A/j) max. 500 g/l (2010)
GWP A1 raw material	5.33 (A-base), 5,14 (C-base)
GWP A2 transport	0.205 (A-base), 0,244 (C-base)
GWP A3 manufacturing	0.409 (A-base), 0,699 (C-base)
GWP A1-A3	5.95 (A-base), 6,08 (C-base)
GWP A4 transport	0.0315 (A-base), 0,0325 (C-base)
GWP A5 assembly	0.121 (A-base), 0,124 (C-base)
GWP unit	kg CO2e/kg
Method for calculating the GWP value	EPD

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.