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NANTEN EP PRIMER

CE



Product description

2-component epoxy primer for priming dry concrete structures.
- Penetrates concrete pores very well and forms a good adhesion
- Not recommended for spaces subject to capillary increases in wetness

Applications

- For priming concrete floors when using 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 diamond grinding, shot blasting or milling. 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 diamond grinding, shot blasting or milling. All loose material that could negatively affect adhesion is removed, and cement dust 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 Epoxy and fine back sand. Larger and wider overfills, straightening and slopes can be made with a compound made of HM Bio Epoxy and back sand (0.1–0.6 mm).

Mixing

Premix component A and component B of EP Primer in separate containers, estimate the required amount of compound, taking into account the size of the area to be treated and application time of

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the compound. Mix the components together in the right mixing ratio, mix with a slow-speed mixer for approximately three minutes, avoid mixing air into the compound

Mixing ratio

Part A: 2.5 parts by volume
Part B: 1 part by volume

Spreading rate

Depending on the porosity of the concrete, 0.2 l – 0.3 l /m^2.
Porous surfaces may require a second treatment to close all pores and produce a uniform and intact film.

Work instructions

The mixed EP Primer is poured onto the floor into a solid trail from which it is applied using a rubber spatula. Do the second application crosswise in approximately 12 hours when the surface is sticky, but no more than two days (48 hours) after the priming. If the coating is to be made with a rubbing paste coating, adhesive sand is spread on top of the primer to facilitate the spread of the rubbing paste. The workspace must be well ventilated. The primer must close all the pores in the concrete, so that an intact, sealed and continuous film is formed on the surface. Do not scrape the mixture at the edges of containers to 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	Component A in a 12.5 l metal container, component B in a 5 l plastic container or both parts in a 200 l barrel
Storage	+5°C...+25°C, maximum shelf life 6 months.
Mixing time	Approx. three minutes
Usage temperature	+15°C ...+25°C
Usage time	Approx. 15 min at 25°C. The time becomes shorter as temperature increases.
Drying time	Dry to touch after 7 hours (+25°C) and 13 hours (+15°C). Dry for approx. < 24 hours (+25°C) and > 24 hours (+15°C).
Adhesion strength	B2.0
Reaction to fire	Efl
Relative air humidity	Below 80% during application and curing of the coating
Thinner	EP Primer is normally not thinned. If the concrete substrate is very thick, Primer can be thinned by 5-10 % by volume with Nanten A Epoxy Thinner.
Method of application	Apply using a rubber spatula, roller and brush
VOC content	370 g/l (ready-to-use mixture)EU VOC 2004/42/ EC (Cat A/j) max. 500 g/l (2010)
GWP A1 raw material	5,47
GWP A2 transport	0,231
GWP A3 manufacturing	0,442
GWP A1-A3	6,14
GWP A4 transport	0,0322
GWP A5 assembly	0,016
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.