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# NANTEN M PRIMER

CE




**Product description**

2-component epoxy primer for damp and freshly cast concrete structures.

- Meets the performance requirements for wet concrete as defined in the CE Construction Products Regulation (EN 1504-2 / EN 13578).
- A fast-curing primer with excellent penetration into concrete pores and strong adhesion even on damp substrates. Prevents moisture migration towards the coating. Not recommended for areas exposed to rising capillary moisture.

**Applications**

- Specifically developed as a primer for damp and freshly cast concrete floors in conjunction with epoxy, polyurethane, and acrylic coatings.

**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 98%, and the surface temperature must be at least +3°C above the dew point. During application and curing of the coating, the air, surface, and coating temperatures must be 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, shot blasting or milling. All loose and adhesion-reducing materials must be removed, and cement dust must be thoroughly vacuumed.

## Old concrete floor

Cement laitance and deteriorated concrete must be removed by grinding, shot blasting or milling. 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

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Premix component A and component B of M 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 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 parts by volume
Part B: 1 part 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 M Primer should be poured onto the floor in a continuous ribbon and spread using a rubber squeegee. Apply a second coat crosswise after approximately 1–2 hours when the surface is tacky, but no later than 24 hours after the initial priming. If the surface is to be coated with a trowel-applied topping, broadcast adhesion sand onto the primer to improve the flow and adhesion of the topping. Ensure proper ventilation in the working area. The primer must seal all pores in the concrete to form a dense, tight, and continuous film. Do not scrape or use material left on the container walls.

### 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** | Light turquoise |
| **Painting supplies group (paintingRYL2012)** | 615 |
| **Gloss group** | Glossy |
| **Package size** | Part A in a 10 l metal container, Part B in a 5 l plastic container, or both in 200 l drums |
| **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** | Approx. three minutes |
| **Usage temperature** | +15°C ...+25°C |
| **Usage time** | Approx. 20 minutes. The time shortens as the temperature increases. |
| **Drying time** | Touch-dry in 9 h (+25°C) and 13 h (+15°C). Fully dry in approx. 15 h (+25°C) and > 24 h (+15°C). |
| **Adhesion strength** | B2.0 |
| **Tensile strength** | >1.5 $N/mm^2$ |
| **Reaction to fire** | Efl |
| **Relative air humidity** | Below 80% during application and curing of the coating |
| **Solids content** | Approx. 100% by volume |
| **Thinner** | M Primer is not normally thinned. However, if the concrete substrate is very dense, the primer can be thinned by 5–10% by volume using Nanten A Epoxy Thinner. |
| **Method of application** | Application with rubber squeegee, roller and brush |
| **VOC content** | < 76 g/l (ready-to-use mixture)EU VOC 2004/42/ EC (Cat A/j) max. 500 g/l (2010) |
| **GWP A1 raw material** | 5,19 |
| **GWP A2 transport** | 0,231 |
| **GWP A3 manufacturing** | 0,630 |
| **GWP A1-A3** | 6,05 |
| **GWP A4 transport** | 0,0322 |
| **GWP A5 assembly** | 0,126 |
| **GWP unit** | kg CO2e/kg |
| **Method for calculating the GWP value** | EPD |

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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.