Hämeenkatu 9
05800 HYVINKÄÄ
Tel. 020 789 5900
www.fescon.fi

NANTEN MATACRYL

CE



Product description

2-component, polyurethane-modified, elastic, fast-curing, acrylic-based (MMA) waterproof membrane for concrete structures.

- The rapid curing time allows for follow-up treatments to be carried out within just a few hours
- Retains its elastic properties even at very low temperatures
- To ensure proper waterproofing, a minimum film thickness of 1.5 mm is required

Applications

- For areas exposed not only to continuous water stress, but also to high temperatures/thermal shock, and heavy mechanical and chemical stress.
- Used as a crack-bridging coating and/or waterproofing membrane as the watertight intermediate layer in the Nanten System TR.

Instructions

Base requirements and coating conditions

The concrete must have a minimum strength class of C25/30 and wear resistance class 3. The relative humidity of the concrete must not exceed 95%, and the surface temperature must be at least +3°C above the dew point. During application and curing, the relative humidity of the air must be below 90%.

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 carefully vacuumed off.

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.

Priming

To ensure watertightness, a chamfer 2–3 cm deep and approximately 5 cm wide is cut around floor drains. This is filled before coating with a filler mortar made of acrylic binder and filler sand. The same procedure applies to other similar connection details. The acrylic filler mortar is also used for any necessary slope corrections and other required fillings.

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Patching

On dry substrates (concrete RH < 95%), priming is done with Nanten Acrylic Primer 101. On damp substrates (concrete RH < 98%), priming is done with Nanten Acrylic Primer 107, suitable for damp concrete.

Mixing

Estimate the required amount of Matacryl membrane based on the size of the area to be treated and the working time of the mixture. Take into account the effect of temperature on the amount of hardener. Pre-mix the resin component in its own container. Add the required amount of catalyst powder and mix with a low-speed mixer for approx. 2 minutes. Avoid entraining air into the mixture.

Mixing ratio

Nanten Acrylic Hardener (50% dibenzoyl peroxide) is used as the hardener/catalyst.
1 dl of hardener = 64 g
The amount of hardener depends on the temperature
+30°C 1 wt-%
+20°C 2 wt-%
+10°C 4 wt-%
+3°C 5 wt-%

Coverage

Matacryl resin approx. 1.9 kg/m^2 (required 1.5 mm film thickness for conditions such as commercial kitchens)

Application instructions

The uniformly mixed material is poured onto the substrate in a bead and spread with a notched trowel to the desired layer thickness. The surface is immediately finished with a steel trowel. Once cured, the surface is sealed with Nanten Acrylic Sealer 319 or 304.
In the Nanten System TR, a new primer layer of elastic Nanten Sealer 319 is rolled onto the Matacryl membrane. Adhesion sand is then broadcast onto the primer as work progresses to facilitate the application of the System TR topping (Nanten 20 N Acrylic). Adequate ventilation must be provided in the working area. Poor ventilation will slow down the drying of the product.

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	25 kg metal container
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. two minutes
Density	1.23 g/l
Usage temperature	+3°C...+30°C
Usage time	Approx. 15 minutes. Working time decreases as temperature increases.
Drying time	Fully loadable after approx. 3 hours
Adhesion strength	B2.0
Wear resistance	AR0.5
Strain at failure	Approx. 400% (DIN 53455)
Reaction to fire	Efl
Viscosity	100-130 mPas, DIN 53214
Relative air humidity	< 80%
Chemical resistance	Class II
Thinner	Do not dilute
Method of application	Applied with a notched trowel and finished with a steel trowel
Washing tools	Nanten Acrylic Cleaner

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.