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NANTEN ACRYLIC 20N M1



Product description

M1-classified acrylic binder for acrylic coating systems.

Applications

- Food and process industry facilities
- Commercial kitchens and laundries
- Outdoor areas
- Loading docks, waste collection shelters, and storage areas

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. Good ventilation must be ensured during application, and the relative humidity must be below 80%. Odours generated during the work can be reduced by using negative pressure ventilation.

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 cement dust must be carefully vacuumed off.

Old concretec floor

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

Mixing

Pre-mix the desired amount of Nanten Acrylic 20N-M1 resin. Assess the effect of temperature on the required amount of hardener and add Nanten Acrylic Hardener (BPO) to the mixing container. Continue mixing for approximately two minutes.

Mixing ratio

Nanten Acrylic Hardener is used as the hardener, and the required amount depends on the working temperature.
1 dl of hardener = 64 g
+30°C 1 wt-%

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+20°C 2 wt-%
+10°C 4 wt-%
+3°C 5 wt-%

Coverage

In trowel-applied coatings (3–4 mm), consumption of 20N M1 resin is approx. 1.6 kg/m^2 and filler sand approx. 6 kg/m^2.
For priming, consumption of 101-M1 Primer is approx. 0.4–0.5 kg/m^2.
For top coating, consumption of 319-M1 Sealer is approx. 0.4–0.5 kg/m^2.
Colored quartz sand is typically used as filler. We recommend using PU-coated filler sand.

Application instructions

The substrate to be coated is primed with Nanten Acrylic 101-M1 Primer. While the primer is still uncured, 0.7–1.2 mm quartz sand is broadcast onto the surface to ensure adhesion of the coating and to improve the workability of the trowel-applied mortar.
The thoroughly mixed Nanten Acrylic 20N-M1 compound (binder + filler sand) is poured onto the floor in a bead and spread with a notched trowel to the desired layer thickness. The surface is immediately finished with a steel trowel. The coating is sealed with Nanten Sealer 319-M1 topcoat, applied in one or two coats depending on the operating environment and the desired surface texture.

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	The resin is light purple in color. The final color of the coating is determined by the selected Nanten color sands or color sand blends.
Package size	20 kg plastic container and 180 kg drum
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	0.99 kg/l, DIN 51757
Usage temperature	+10…+30°C
Usage time	Once poured onto the floor: approx. 15 minutes. Working time shortens as temperature increases.
Drying time	Recoatable after approx. 45-60 minutes. Fully loadable after approx. 2 hours.
Compressive strength	Class II: 50 N/mm^2
Adhesion strength	> 2.0 N/mm^2
Reaction to fire	Cfl-s1
Viscosity	(+25°C): 135 mPas, DIN 53018
Water vapour permeability	Class III: SD >50 m
Water permeability	w < 0.1 kg/m2 x h 0.5
Relative air humidity	During application: < 80%
Chemical resistance	Class I
Thinner	Do not dilute
Method of application	Applied with a notched trowel and finished with a steel trowel
VOC content	< 0 g/lEU VOC 2004/42/EC (Cat A/j) max. 500 g/l (2010)
Washing tools	Nanten Acrylic Cleaner (MMA)

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.