Hämeenkatu 9
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NANTEN ACRYLIC 205

CE

Product description

Acrylic binder for acrylic coating systems.
- Suitable for floors exposed to heavy mechanical and chemical stress
- Can be applied at low temperatures
- Fast drying time allows for quick commissioning and minimizes production downtime
- Medium-viscosity “all-around” binder

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 concrete 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.

Patching

Small holes and cracks are cleaned and filled with an acrylic putty made of acrylic binder and thickening fiber (Sylothix). Larger and more extensive overfills, levelling, and slope formation can be done using a filling/levelling mortar made of Nanten Acrylic 205 binder and filler sand. The maximum thickness of a single application must not exceed 15 mm.

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Mixing

Pre-mix the desired amount of Nanten Acrylic 205 binder. Assess the effect of temperature on the required amount of hardener and add the hardener to the mixing container. Continue mixing for approximately two minutes. Add the required amount of selected color sand to the mixture and continue mixing, avoiding air entrapment in the mass.

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-%
+20°C 2 wt-%
+10°C 4 wt-%
+3°C 5 wt-%

Application instructions

The substrate to be coated must be primed with Nanten Acrylic Primer (101 or 107), and adhesion sand must be broadcast onto the surface. The thoroughly mixed Nanten Acrylic 205 compound (binder + color sands) 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 surface texture can be adjusted by selecting the appropriate grain size of the color sand. Nanten acrylic trowel coatings are sealed with the Nanten Acrylic Sealer 319 or Sealer 304 topcoat, depending on the requirements of the environment.
Nanten Acrylic 205 can also be used for slope corrections and filling. The product is CE-marked and meets the performance requirements of the levelling compound standard EN 13813.

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

Material usage	At a layer thickness of 3–4 mm, resin consumption is approx. 1.6 kg/m^2 and filler sand consumption approx. 6 kg/m^2 (mixing ratio approx. 1:3 by weight and 1:2 by volume). Colored quartz sand is used as filler.
Colour	Colorless; the color of the coating is determined by the selected Nanten color sands
Package size	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	(+25°C): 0.98 kg/l
Layer thickness	Standard layer thickness approx. 4 mm; in areas exposed to heat stress, a 6 mm layer thickness is recommended
Lowest usage temperature	+3^{0}C
Usage time	(+20°C) 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): 130-170 mPas
Water vapour permeability	Class III: SD >50 m
Water permeability	w < 0.1 kg/m^2 x h 0.5
Relative air humidity	Good ventilation must be ensured during application, and the relative humidity must be below 80%
Chemical resistance	Class II
Method of application	Applied with a notched trowel to the desired layer thickness
VOC content	5 g/lEU VOC 2004/42/EC (Cat A/j) max. 500 g/l (2010)
Washing tools	Nanten Acrylic Cleaner (MMA)

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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.