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NANTEN ACRYLIC 216



Product description

High-viscosity, fast-curing, elastic binder for Nanten acrylic coating systems.

- Contains no water-soluble plasticizers
- Can be applied at low temperatures

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.

Metal substrate or ceramic tile

Metal surfaces must be blast-cleaned to an adequate level. Ceramic tiles must be firmly bonded to the substrate. The tile surface should be roughened by grinding the glaze. On tiled substrates, an overfill/levelling layer with acrylic mortar is recommended to prevent tile joints from showing through the finished coating.

Mixing



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Pre-mix the required amount of Nanten Acrylic 216. 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.

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-%

Coverage

In a 3–4 mm thick broadcast coating system, resin consumption is approx. 1.6 kg/m² and filler sand consumption is approx. 6 kg/m² (mixing ratio approx. 1:3 by weight and 1:2 by volume). Colored quartz sand is used as filler.

Application instructions

Trowel-applied coating is applied on a substrate primed with Nanten Acrylic Primer 101 or 107. Thoroughly mixed Nanten Acrylic 216 and the selected filler sand blend are poured onto the floor in a bead and applied with a roller to the desired layer thickness.

In the broadcast method, the selected filler sand is scattered onto the wet acrylic. The acrylic is fully saturated with sand, and after curing, excess sand is removed by brushing. Nanten acrylic trowel coatings are sealed with the Nanten Acrylic Sealer 304 or Sealer 319 topcoat, depending on the requirements of the intended use environment.

Commissioning

Recoat after approx. 60 minutes. Fully loadable after approx. 2 hours.

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	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
Usage temperature	+3°C ...+30°C
Usage time	Once poured onto the floor: approx. 15 minutes. Working time shortens as temperature increases.
Drying time	Recoat after approx. 60 minutes. Fully loadable after approx. 2 hours.
Compressive strength	Coating system > 82 MPa
Adhesion strength	B2.0
Wear resistance	RWA 1
Reaction to fire	Cfl-S1
Viscosity	(+25°C): 620-680 mPas, DIN 53018
Relative air humidity	< 80%
Thinner	Do not dilute
Method of application	Applied with a notched trowel and finished with a steel trowel
VOC content	< 0 g/l EU 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.