

NANTEN ACRYLIC 216

Elastic, crack-bridging multi-purpose acrylic binder

PRODUCT TYPE

Polyurethane modified binder for methylmetacrylate based acrylic coating compounds. Also used to increase the elasticity of grindable render compounds in combination with Nanten Acrylic 20 N. Retains its elasticity even at low temperatures.

USAGE

Floors exposed to high mechanical, shock and temperature fluctuations, that cause deformation of the substrate. Used as an elastic 1-1.5mm "membrane layer" under acrylic coatings to improve the durability of acrylic flooring in harsh conditions.

PROPERTIES

High viscous fast-curing elastic binder for Nanten acrylic coating methods. Does not contain water-soluble plasticizers. Can be installed at low temperatures. It is used outdoors as a binder in sowing coating.

TECHNICAL DATA

COLORS

Colorless

COVERAGE

Sowing coating with 3-4 mm layer thickness requires resin about 1,7kg/m² and filler sand about 6kg/m².(mixing ratio about 1:3 by weight and 1:2 by volume). Filler sand is colored quartz sand.

MIXING RATIO

Use Nanten Acrylic Hardener as the hardening agent; quantity of the hardener depends on the processing temperature.

1 dl hardener = 64 g.

Hardener quantity according to temperature.

+30°C 1 weigh-%

+20°C 2 weigh-%

+10°C 4 weigh-%

+3°C 5 weigh-%

PACKAGE

Supplied in 20l tin containers and 180kg barrels.

POT LIFE (+20°C)

About 15 minutes after spreading on the floor. With higher temperatures the time is shorter.

Application temperature:

+3°C...+30°C

DRYING TIME (+20°C)

Can be surface coated after about 60 minutes. Fully loadable after about 2 hours.

APPLICATION METHOD

Spread with a variable trowel and finish with a steel trowel.

DILUTION

Do not dilute.

CLEANING OF TOOLS

Nanten acrylic detergent (MMA).

Painting supplies group

52.9 (RT classification).

STORAGE

+5°C ...+20°C, max. storage time 6 months. Store in a warm room, in tightly sealed original containers.

Density (+25°C)

0,99 kg /l, ISO 2811.

Viscosity (+25°C)

620-680 mPas, DIN 53018.

Breakage elongation (+ 20°C)

260 %.

Breakage elongation (0°C)

190 %.

Compression strength

Coating method >82 MPa.

Adhesive strength

> 2,5 MPa.

Tensile strength (+ 20°C)

10,5 MPa.

VOC

VOC in working mixture < 0 g /l. EU VOC 2004/42/EC (cat A/j) max. 500 g/l (2010).

DIRECTIONS FOR USE

REQUIREMENTS TO THE SUBSTRATE AND COATING CONDITIONS

Concrete strength class should be at least C25/C30 and wear resistance class 3. Concrete relative humidity should be below 95% and surface temperature at least 3°C above dew point. During the work ensure good ventilation and relative air humidity < 80% in the room. Smell generated during the work can be removed by means of underpressure.

PRETREATMENT

New concrete floor

Remove laitance and any non-cured cement by surface grinding or shot-blasting. All loose material which lowers adhesion should be cleared away and cement dust carefully removed with a vacuum cleaner.

Old concrete floor

Remove laitance and any concrete that is in poor condition by surface grinding or shot-blasting. All loose material which lowers adhesion should be cleared away and the surface carefully cleaned with a vacuum cleaner. Soiled floors should be washed and rinsed with synthetic detergent before any works on the substrate. Remove completely any old films of paint in the substrate.

METAL AND CERAMIC TILE

Metal substrate must be blast cleaned to an adequate level. Ceramic tiles should be attached to their substrate. The surface of the tiles is roughened by sanding the glazing. It is advisable to fill/level the acrylic compound on the tiled substrate so that the joints are not visible on the finished coating.

FILLING

Small hollows and cracks should be cleaned and filled with acrylic putty made of acrylic binder and thickening fibre (Sylothix). Larger and more extensive filling, leveling and pouring can be performed with a filling/leveling mixture made of Nanten Acrylic 20 N binder and filler sand. Thickness of bulk material cast in one layer should not exceed 15mm.

MIXING THE COMPONENTS

First mix the required quantity of Nanten Acrylic 216, estimate the effect of temperature on the required quantity of hardener and add the hardener into the mixing container. Continue mixing for about two minutes.

COATING

The grindable render coating is applied to a substrate primed with Nanten Acrylic Primer 101 or 107. Mix Nanten Acrylic 216 compound and filler sand properly, pour the mixture to the floor in a strip and spread with a variable trowel until achieving the required layer thickness. The surface is immediately finished with a steel trowel. When sowing (broadcast method), the selected filling sand is sprinkled on top of the Acrylic. The Acrylic is sown full of sand and after the coating has hardened, the excess sand is brushed off. When used as an intermediate/membrane layer, elastic Acrylic 216 is applied to the primed area to a layer thickness of 1-1.5 mm. Before further treatment, we recommend a new primer treatment with Nanten Primer to ensure the adhesion of the actual coating layer. Nanten Acrylic grindable renders are varnished with a surface sealer suitable for the application environment: Nanten Acrylic Sealer 319 or Sealer 304.

APPLICATION SAFETY:

See www.nanten.fi/products/safety data sheets.

CE
Nanten Oy Teollisuustie 6, FI-04300 Tuusula
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1119-CPD-1190
EN 1504-2:2004
Betonirakenteiden suojaus- ja korjausaine - Pinnoite
Primer 107 on testattu pohjusteena CE -merkityissä Nanten akryylipinnoitusmenetelmissä.

Be sure to read the Coated Floor Care Instructions and the product safety data sheet on our website www.nanten.fi or order it by phone number 09-2747970.

Although the technical specifications of the product description are based on our best knowledge and experience, all the above information must be taken as a guide in all cases. The user must ensure the suitability of the product for the application area. If the instructions are not followed, the user is solely responsible for the possible damages and consequences.