

NANTEN

ColorPUR 6-9 mm

Solvent-free, hybrid polyurethane-based coating

PRODUCT TYPE

3-component hybrid polyurethane-cement coating.

Film thickness 6-9 mm

USAGE

For the food and chemical industries, especially when the site requires high resistance to chemical and organic acids and the floor is exposed to hot water and steam washing.

PROPERTIES

High thermal, chemical and mechanical resistance. Excellent resistance to hot water and continuous exposure to moisture. Rough surface reduces slipperiness. Low emission.

TECHNICAL DATA

COLORS

Gray, cream, brownish yellow, red and green.

GLOSS LEVEL

Matt

COVERAGE

Thickness 6mm: 13.14kg/m²

Thickness 9mm: 19.71kg/m²

Coverage is affected by the substrate smoothness, porosity and temperature.

PACKAGE SIZES

Part A 2.5 kg polyol emulsion

Part B 2.6 kg polyisocyanite

Part C 26.4 kg fillers

Set total 31.5 kg

Pigment 0.300 kg

As a custom product, the C-component is available pre-colored with a

minimum delivery quantity of 4,000 kg

POT LIFE (+20°C) ±15min

Installation temperature +12°C...+25°C

DRYING TIME

Durable for walking traffic - 8 hours, resistant to mechanical stress - 24 hours, chemical resistance - 7 days.

CLEANING OF TOOLS

Clean immediately after use with Nanten PU thinner.

STORAGE

Unopened package 6 months

All components should be stored under protection and off the ground in a dry place at +5°C...+25°C. This is a particularly important for component C, which may harden and clump, making it unusable. Keep all parts free from

freezing, including during transport. Direct sunlight or other strong heat source causes uneven temperature rise in stored materials. Such a product should not be used until the temperature has stabilized, otherwise there may be unevenness in the installation.

Compression strength: 60 N/mm²

Adhesion to concrete: 2.7 N/mm²

Heat resistance:

6mm: -20°C - +70°C

9mm: -20°C - +120°C

Flexural strength: 16 N/mm²

Tensile strength: 7 N/mm²

Density: 2.19kg/cm³

Coefficient of thermal expansion: 1,4x10⁻⁵/°C

E-module: about 2000 MPa (9mm), about 3000 MPa (6mm)

Fire class: Bfl -s1 (NF EN 13501-1)

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 application and drying of the coating, the temperature of the ambient air, the surface and the coating shall be above +15 °C and the relative humidity of the air below 80%.

PRETREATMENT

New concrete floor

Remove laitance and any non-cured cement by surface grinding, shot-blasting or milling. 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, shot-blasting or milling. 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.

ADHESIVE GROOVES (ANCHORING GROOVES)

The adhesive grooves are made according to the manufacturer's instructions. They should be made on the edges of the area to be coated and around the bushings and posts/columns. The depth and width of the adhesive groove is twice the thickness of the coating.

PRIMING

Prime with Nanten ColorPUR Primer. The primer should seal all the pores in the concrete so that an intact uniform film on the surface is formed. If necessary, adhesive sand is sown in the primer to improve the spreadability of the coating.

MAIN COMPOUND

Mixing and applying the coating

More detailed information and instructions on mixing and installation can be found in the ColorPUR manual, which is intended for authorized installers only.

Liquid components A and B are poured into a mixing bucket and mixed mechanically for 30 seconds. Make sure the packages are completely empty before mixing. Add pigment. When the liquid resin mixture is smooth, add half of component C and mix for about 1 minute until the mixture is smooth. Make sure that half of component C is completely mixed with the resin. Then repeat, adding the other half of component C. The mixing time may vary somewhat depending on the ambient and material temperatures. Once the mixture is smooth and free of lumps, bring the material to the work area immediately. Spread the coating to the desired layer thickness, e.g., with a variable trowel and finish the surface with a spike roller.

Nanten ColorPUR rough surface:

When a rough surface is desired, quartz sand is sown on a wet surface. The size of the sand determines the roughness class. Once the coating has hardened, remove excess quartz sand by brushing/vacuuming. Nanten ColorPUR Topcoat is spread (0,6-0,8 kg/m²) with a rubber trowel and finished by rolling.

Comments:

The components must be mixed mechanically. The ideal ambient and installation temperature scale is between +12°C and +25°C. It is important to consider the effect of the dew point to avoid the formation of moisture in the primer. The installation instructions should be read carefully before coating.

CE		CE	
Nanten Oy Teollisuustie 6, FI-04300 Tuusula		Nanten Oy Teollisuustie 6, FI-04300 Tuusula	
13		13	
1119-CPD-13109		1119-CPD-13109	
EN 1504-2:2004		EN 13813-2:2002	
Betonirakenteiden suojaus- ja korjausaine- Pinnote		Betonirakenteiden suojaus- ja korjausaine- Pinnote	
Kulumiskestävyys	Painohäviö < 3000 mg	Kulumiskestävyys EN ISO 13892-4	< AR 0,5
Kapillaarinen imeytyminen Ja veden läpäisevyys	w < 0,1 /m ² x h ^{0,5}	Iskunkestävyys EN ISO 6272-1	> IR 20
Iskunkestävyys	Luokka I > 4 Nm	Kestävyys vetokokeessa EN 13807-R	> R 20
Tartunnan lujuus vetokokeessa	> 1,5 N/mm ²		
Palokäyttäytyminen	Eff-s1		
Kemikaaliräsitöksen kestävyys (28 d)	Luokka II		
Hiililinkierin läsnäolo	ei > 50 m		

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.