

# Nanten Acrylic Primer 101

## Universal primer for concrete surfaces with acrylic coating compounds

### PRODUCT TYPE

Nanten Acrylic Primer 101 is a methylmetacrylate based primer for priming dry concrete substrates for acrylic coating compounds. Also suitable for non-porous asphalt substrates. The coating contains no volatile organic compounds (VOC).

### APPLICATION

Used as a primer of concrete structures with Nanten acrylic coating compounds.

PROPERTIES Universal fast curing low-viscosity primer ensures good adhesion for acrylic coating compounds.

### TECHNICAL DATA

**Colours** Colourless.

#### Material consumption

Priming 0.3 – 0.5 kg /m<sup>2</sup> depending on surface tightness.

#### Mixing ratio

Use Nanten Acrylic Hardener as the hardening agent; quantity of the hardener depends on the processing temperature. 1 dl hardener = 64 g.

<b>Hardener quantity</b>	+ 30 °C 1 weight-%
<b>according to temperature</b>	+ 20 °C 2 weight-%
	+ 10 °C weight-%
	+ 3 °C weight-%

#### Package

Supplied in 10 l tin containers and 180 kg barrels.

#### Application time (+ 20°C)

Approx. 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 coated after 45 – 60 minutes.  
Fully loadable after approx. 2 hours.

#### Application method

Spread with a brush or roller.

#### Dilution

The primer is not normally diluted.

#### Cleaning of tools

Clean the tools with e.g. methylmetacrylate (MMA).

### Storage

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

### TECHNICAL PROPERTIES

<b>Density (+ 25°C)</b>	Density 0,99 kg /l, DIN 53217.
<b>Viscosity (+ 25°C)</b>	100 – 130 mPas, DIN 53018.
<b>Elasticity modulus</b>	1990 MPa
<b>Adhesive strength</b>	> 2,5 Mpa
<b>Tensile strength</b>	10,3 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

#### Surface requirements and application 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. Ensure good ventilation in the room during the work. Smell generated during the work can be removed by means of underpressure.

#### Surface preparation

##### 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 deteriorated concrete 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. Soiled floors should be washed with synthetic detergent before other substrate processing works. Remove completely any old films of paint in the substrate.

##### Asphalt substrate

Substrate should be clean and dry. We recommend testing the primer to make sure that the primer used will not soften the bitumen.

**Filling**

Small hollows and cracks should be cleaned and filled with acrylic filler made of acrylic binder and thickening fibre (Sylothix). Larger and more extensive filling, levelling and pouring can be performed with a filling/levelling mixture made of Nanten Acrylic 20 N binder and filler sand.

**Mixing of components**

First mix the required quantity of Nanten Acrylic Primer 101, 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.

**Priming**

Mix Nanten Acrylic Primer 101 properly, pour it to the floor in a strip and spread with a short-hair roller or rubber trowel. Scatter roughening sand (grain size < 1.5 mm) to fresh primer surface along the progress of the work, to facilitate spreading of the coating mixture and to ensure coating adhesion. The primer should seal all the pores in the concrete and form a uniform tight and intact film.

**Care of the coated floor:**

See [www.nanten.fi / products / cleaning and care instructions](http://www.nanten.fi/products/cleaning_and_care_instructions).

**APPLICATION SAFETY:**

See [www.nanten.fi / products / material safety data sheets](http://www.nanten.fi/products/material_safety_data_sheets).

<b>CE</b>
Nanten Oy Teollisuustie 6, FI-04300 Tuusula
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<b>1119 -CPD- 1190</b>
EN 1504-2 -2004
Protection and repair agent for concrete structures – Coating
Primer 101 has been tested as a primer for CE-marked coating technology

Even though the technical details of the product description are based on our best knowledge and experience, the above-named information should always be regarded as indicative. The user should make sure that the product is suitable for the application. If working contrary to these instructions, the user is solely responsible for any possible resulting damages and consequences..