

# Nanten ESD Primer

## Conductive primer for Nanten ESD coating compounds

### PRODUCT TYPE

Nanten ESD Primer is a 2-component low-soluble conductive epoxy primer for Nanten ESD coating compounds.

### APPLICATION

Used as a primer of premises requiring static electricity discharge control for Nanten ESD coating compounds used in premises where coatings are required conductivity corresponding to standards PSK 2703 OR IEC EN 61340-5-1/2.

### PROPERTIES

Extremely good conductivity, good adhesion to substrate and fast drying.

### TECHNICAL DATA

- Colours** Black.
- Gloss group** -
- Coverage** Consumption approx. 0.35 l/m<sup>2</sup>.
- Mixing ratio**  
(Part A) resin 5 parts by volume and (Part B) hardener 1 part by volume. Always mix both components together.
- Package**  
Part A in a 15.5 l tin container.  
Part B in a 3.1 l plastic container.
- Application time (+ 20°C)**  
Approx. 15 - 20 minutes when poured on the floor. With higher temperatures the time is shorter.
- Drying time**  
Dry to touch 5 h (+ 25°C) and 10 h (+ 15°C).  
Dry, can be coated in 12 – 24 h, depending on temperature.
- Application method**  
Spread with a rubber trowel and roller.
- Dilution**  
Do not dilute this product.
- Cleaning of tools**  
Tools can be cleaned with e.g. ethyl acetate.
- Storage**  
+ 5°C ...+ 25°C, max. storage time 3 months. Store in a warm room, in tightly sealed original containers.

### TECHNICAL PROPERTIES

- Film thickness** Film thickness 150 - 250 µm.
- ESD-properties** IEC-EN 61340-5-1/2.
- Density (+ 25°C)** Approx. 1.20 kg/l, ready mixture.
- Adhesive strength** > 2,5 MPa.
- VOC (calculated)**  
VOC in application mixture 202 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. Air, surface and coating temperature should be over + 15°C during the coating application and drying and relative humidity below 80%.

#### 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 the substrate 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.

#### Priming

Prime with Nanten HM Epoxy. Moist concrete bases with relative humidity higher than 95% should be primed with Nanten M Primer which is intended for moist concrete. The primer should seal all the pores in the concrete and form a uniform tight and intact film on the surface. Small hollows and cracks should be cleaned and filled with epoxy filler, such as a filler prepared with Nanten HM Epoxy and fine filler sand. Uneven areas on the base should be levelled with epoxy as needed.

For ESD coating compounds the substrate must be even.

**ESD priming**

The copper tapes used for grounding are fixed to the cured surface of HM Epoxy according to plan. The actual priming for Nanten ESD coating compounds is made with the conductive Nanten ESD Primer.

**Mixing of components**

First stir part A and part B of ESD Primer in their own containers. Blend the components into one another in a mixing container and continue with a mixer at low speed for about two minutes, trying to avoid mixing any air into the mixture.

**ESD Primer**

Pour the mixture to the floor in a uniform strip and spread with a short-hair roller. Scatter conductive ESD sand to the primer surface to improve coating adhesion and facilitate spreading of the ESD Grindable Render. Consumption rate of ESD Primer should be about 0.3 l /m<sup>2</sup>. The primer layer should be with even thickness.

**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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0809 -CPR- 1037
EN 1504-2:2004
Coating / screed
ESD Primer has been tested as a topcoat 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.



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