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NANTEN PU W2 ESD PAINT



Product description

Water-based, two-component, electrically conductive polyurethane coating.
- Fast-drying and low-emission
- Full matt finish
- Grey in colour

Applications

- Top coat / maintenance coating for smooth ESD flooring
- As an electrically conductive top layer over an insulating coating (NOTE: grounding required)

Instructions

Base requirements and coating conditions

The substrate must be clean, sound, solid and dry. The surface temperature must be at least +3 °C above the dew point temperature. During application and drying of the coating, the air, surface and coating temperature must be above +15 °C, and the relative humidity of the air below 80%. Ensure the suitability of the coating for the substrate to be treated.

Top coat / maintenance coating for smooth ESD flooring

The coating is applied to the substrate by roller in accordance with the application instructions. See application instructions.

As a top coat over a non-conductive, insulating coating

Before application, grounding must be provided on the surface of the coating to be treated using conductive copper tapes. The tapes are brought up onto the walls to form grounding points, approx. 200 mm above floor level. After this, the coating is applied to the substrate by roller in accordance with the application instructions. To ensure electrical conductivity, application in two coats is recommended. See application instructions.

Mixing

Pre-mix the components separately in their own containers until homogeneous. Combine components A and B in the correct ratio and mix carefully with a low-speed mixer for approx. 2–3 minutes. The product must not be thinned.

Mixing ratio

Component A: 6 parts by volume
Component B: 1 part by volume

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Densities

Component A approx. 1.2–1.3 kg/l (coating)
Component B approx. 1.15 kg/l

Coverage

Approx. 0.10–0.14 l/m^2 per coat.
Approx. 50 m^2 per 7-litre batch.

Application instructions

Nanten PU W2 ESD is applied by cross-rolling onto the substrate to form a continuous and even film, for example using a microfibre roller. Finish the surface by rolling in one direction so that each stroke is made in the same direction. When selecting the rolling direction, take natural light into account. Ensure that a wet edge is maintained and that dry edges do not form. This will prevent roller marks in the finished surface. Estimate the required batch size taking into account the area to be coated and the pot life of the mixture.
NOTE! When applied over an insulating coating, application in two coats is recommended to ensure electrical conductivity.

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	Grey
Package size	Part A: 6 litres, Part B: 1 litre
Storage	+5°C to +25°C, shelf life up to 6 months. Must be stored in a warm location in tightly sealed original containers. Protect from freezing.
Mixing time	Approx. two minutes
Solid volume	Approx. 55 vol-%
Usage temperature	+15°C...+25°C
Usage time	Once poured onto the floor: approx. 40–50 minutes. When kept in the container or at elevated temperatures, the working time is reduced.
Drying time	Touch-dry in approx. 3 h (+25°C) and 5-6 h (+15°C). Resists light traffic after approx. 16 h (+25°C) and 24 h (+15°C). Fully cured in 7-14 days (+20°C).
Tensile strength	> 1,5 MPa (N/mm^2)
Relative air humidity	Below 80% during application and curing of the coating
Thinner	Do not dilute
Method of application	Applied with a roller
VOC content	< 9 g/l (ready-to-use mixture)EU VOC 2004/42/EC (Cat A/j) max. 140 g/l (2010)
GWP A1 raw material	3.02 (A-base), 2.05 (C-base and varnish)
GWP A2 transport	0.17 (A-base), 0.177 (C-base and varnish)
GWP A3 manufacturing	0.896 (A-base), 0.965 (C-base and varnish)
GWP A1-A3	4.09 (A-base), 3.64 (C-base and varnish)
GWP A4 transport	0.0331 (A-base), 0.0336 (C-base and varnish)
GWP A5 assembly	0.129 (A-base), 0.126 (C-base and varnish)
GWP unit	kg CO2e/kg

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.