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NANTEN PU FLEX UV



Product description

2-component, self-levelling, elastic, UV resistant polyurethane coating for indoor and outdoor applications.

- Elastic, high resistance to wear and shock
- Constant resistance to oils, grease, fuels, commonly used detergents and salts, temporary resistance to mild acids and bases
- Can be used on e.g. concrete, cement mortar and plywood surfaces
- Low-emission
- Colours available in accordance with the Nanten and RAL colour charts. Stock colour RAL 7035, minimum order quantity of other shades 30 pcs / shade

Applications

- Outdoor waterproofing, e.g. balconies and access balconies
- For environments subject to medium or light loads

Instructions

Base requirements and coating conditions

The base should be cement or concrete, with minimum compression strength 25 MPa and minimum tensile strength 1.5 MPa. The base temperature must be at least +3^{0}C above dewpoint. During coating work and drying of the coating, the temperature of the ambient air, the base and the coating must be between +8°C and +25^{0}C and relative humidity must be below 80%. Make sure that the coating is suitable for the surface to be coated.

New concrete floor

Laitance and any uncured cement are removed e.g. by diamond grinding the surface. All loose material that could negatively affect adhesion is removed, and cement dust is carefully vacuum-cleaned.

Old concrete floor

The laitance and damaged concrete are removed e.g. by diamond grinding. All loose material that could negatively affect adhesion is removed, and the base is carefully vacuum-cleaned. Dirty floors should be washed and rinsed with synthetic detergent before performing any other base treatment work. Any old coat is removed completely. Possible surface castings or slope repairs are carried out with Fescon Repairing Plasters or Repair Concrete RKB, see Fescon's design and work instructions for concrete balconies for details.

Priming

Concrete bases are primed with Nanten EP Primer epoxy (RH of the concrete < 95%). The carefully mixed primer is rolled or spread onto the base, or applied with a rubber spreader. Highly porous

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bases are primed twice. The primer is formed into an intact membrane, without any pores on the surface. The coating is applied after the primer has dried, within 12 to 48 hours depending on the conditions. If the coating is applied more than 48 hours from the priming, the primed surface must be roughened and grinding dust must be removed. It is recommended that the primer be freshly sanded with clean, kiln-dried sand, as there will be no time limit for the coating after that. Good ventilation must be ensured in the workspace as needed. Plywood bases are primed with Nanten PU Flex UV polyurethane coating.

Patching work

Patching and straightening are done with Fescon repairing plasters or Repair Concrete RKB in accordance with product data sheet instructions. Small patching and straightening work can also be done with a paste made of PU Flex UV coating and back sand.

Mixing

Premix component A and add component B (curing agent) to component A. Mix with a slow-speed mixer for two minutes, avoid mixing air into the paste. Make sure to reach the edges and bottom of the container with the mixer. Finally, pour the mixture into another container and continue mixing for another minute, avoiding mixing air into the paste.

Mixing ratio

Component A 3 mass fractions and component B 1 mass fraction. It is recommended to prepare a full container at a time to avoid dosing errors.

Spreading rate

Consumption in coating approximately 1.5 kg/m^2 with a layer thickness of at least 1 mm.

Work instruction

If the coating is done more than 48 hours from the priming and the primer has not been sanded, the primed surface must be roughened and the grinding dust must be removed. The mixture is poured onto the floor in a continuous flow that is then applied at the desired thickness with an adjustable or toothed steel trowel. After application, use a spiked roller to remove air bubbles. The mixing container must not be drained onto the base to be coated. Do not apply in direct sunlight or in excessively humid conditions, see Base requirements and coating conditions. Inadequate mixing may result in uneven curing or discoloration. Vertical surfaces are coated using brushes and, if necessary, the coating is thickened with a suitable product. The coating can also be roughened with sand or glass beads. Decorative flakes are added immediately after application of the coating.

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	Standard colour RAL 7035. Colours available in accordance with the Nanten and RAL colour charts.
Painting supplies group (paintingRYL2012)	665, 666, RL 04, RL 06
Gloss group	Full glossy
Package size	Component A 7.5 kg in a metal container and component B 2.5 kg in a plastic container. 10 kg series (approx. 8.2 l).
Storage	+5°C...+25°C, maximum shelf life 6 months. Store in a warm environment, sealed in original containers. Long shelf time may shorten product life.
Mixing time	About 3 minutes
Density	The density of the finished mixture is approximately 1.22 kg/l, depending on the amount of colour paste used.
Usage temperature	+8°C…+25°C
Usage time	Approximately 20 minutes in the container. Approximately 30–40 minutes after being poured onto the floor. The time becomes shorter as temperature rises.
Drying time	Dry to touch after 5 hours (+25°C) and 9 hours (+15°C). Fit for light traffic after approximately 12 hours (+25°C) and approximately 24 hours (+15°C). Fully cured after 7 days.
Relative air humidity	During coating work and drying of the coating, below 80%
Solids content	Approx. 100% by volume
Thinner	Not to be thinned.
Method of application	Application with adjustable trowel or toothed steel trowel.
VOC content	< 5 g /l (ready-to-use mixture)EU VOC 2004/42/EC (cat A/j) max. 500 g/l (2010)
Washing tools	Nanten PU Thinner

Remember to read the Coated Floor Maintenance Instructions and the Product Safety Data Sheet on our website www.fescon.fi or order it at +358 9 274 7970. Although the technical details of the product description are based on our best knowledge and experience, the above information must be taken only as a guideline in all cases. The user must ensure that the product is suitable for the application. When working contrary to instructions, the user is solely responsible for any damages and consequences caused.

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.