Hardtop

300 POX-N



Product Description

EPI Hardtop 300 POX-N is a 2-component, water-based, pigmented epoxy coating that can be used as a roll coating system or as a line coating on mineral surfaces.

Product Features

- Water-based
- Easy to maintain
- Water vapor permeable
- Slip-resistant options
- Wear-resistant

Application areas

- Balcony and gallery coating
- Docks and platforms
- Marking lines
- Parking garage coating
- Areas with vapor permeability

Colour

EPI Hardtop 300 POX-N is available in RAL colours, other colors on request.

The final appearance gives a semi-matt, orange peel rolling effect, depending on the layer thickness.

Technical Information

Density	~ 1,4 kg/dm^3
Pull-off strength	≥ 1.5 N/mm^2
VOC content, EU-limit value cat.A/j	≤ 140 g/l
Giscode	RE 20
Solids	approx. 65 % weight
Mixing ratio	comp. A : B = 20 : 100
General application conditions	Material-, substrate-, and ambient temperatures between 15°C and 25°C and at least 3°C above dew point.
Optimal installation conditions	Material-, substrate-, and ambient temperatures between 18°C and 22°C
Relative humidity	Maximum 85% RH
Application time	40 - 50 minutes at 20°C and 65% RH
Touch dry	After approx. 6 hrs at 20°C and 65% RH
Re-coat window	After apporx. 16 hrs at 20°C, apply next layer within 24 hrs.
Foot traffic	After approx. 10 hrs at 20°C en 65% RH.
Mechanical loads	After approx. 48 hrs at 20°C and 65% RH.
Chemical loads	After 7 days at 20°C and 65% RH.

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary.

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Packaging

EPI Hardtop 300 POX-N is available in the following packaging units;
EPI Hardtop 300 POX, set 12 kg;

- EPI Hardtop 300 POX-N comp. A : 2.0 kg
- EPI Hardtop 300 POX-N comp. B : 10.0 kg

Other packaging units available on request.

Theoretical coverage

EPI Hardtop 300 POX-N uses approx. 150 to 200 gr/m^2 per layer, depending on the roughness of the substrate. Nominal thickness approx. 50 – 150 micron.

Sustainability

LEED v4 – BREEAM - DGNB

LEED, BREEAM & DGNB are preeminent programs for the design, construction, maintenance and operations of high performance "Green Buildings". EPI Hardtop 300 POX-N conform to the following criteria:

LEEDv4	:	MRc6 Renewable materials
LEEDv4	:	IEQc4.3 Low emitting materials
BREEAM	:	HEA 02 Indoor Air Quality
BREEAM	:	HEA 09 Indoor Air Quality
DGNB	:	ENV 1.2 Local Environmental Impact
	-	Indicator 23 – Quality level 2
	-	Indicator 24 – Quality level 4

Substrate Preparation

In General, the substrate must fulfil the relevant standards with special reference to flatness, gradients, thickness, load bearing capacity and water permeability.

Substrates to be coated have to be firm, dry, clean and free of loose and brittle particles and substances that impact the adhesion such as oils, grease, paint or other contaminations. Concrete substrates must be dry and a require a minimum cohesion strength of 1,5 N/mm^2 and a minimum compressive strength of 25 N/mm^2 at time of installation. Existing joints in the concrete surface must be performed with a joint profile.

Residual Moisture tolerance

Prior to installation, mineral substrates must always be provided with a vapor barrier and must not exceed 4 % decreasing residual moisture content measured by the Calcium Carbide method, which corresponds to maximum 75% relative humidity according to ASTM F2170. If using the calcium chloride test, the maximum allowable vapour emissions is 4.0 lbs as per ASTM F1869. For anhydrite substrates must not exceed 0,5% decreasing residual moisture content measure by the Carbide method.

Limit processing conditions

No rising moisture in accordance with ASTM (polyethylene foil). The temperature of the substrate and not cured material must be at least 3°C higher than the dew point to prevent the risk of condensation, white discoloration or sticking of the floor finishing layer. At temperatures <10°C, the exothermal reaction will greatly slow down and exposed to changed humidity % for a longer period, which can cause white discoloration and carbamate formation.

Work Safety Precautions

Before using the products, the user must read the associated, current Material Safety Data Sheets (MSDS). The MSDS provides information and instructions for the safe use, handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety related data.

Please refer to the Material Safety Data Sheets for detailed safety instructions for use of the use of personal protective equipment during the processing of the materials. The Safety Data Sheet EPI Hardtop 300 POX-N applies to the components A and B. These sheets have been drawn up in accordance with the latest European legislation.

Application of EPI Hardtop 300 POX-N

General:

- Before installation, always check all relevant documentation and check that all components are present in the required quantities.
- Large temperature differences should be avoided as this can adversely affect the end result.
- The area must be wind and watertight: avoid drafts and penetration of moisture, dust, water, etc..
- Preferably remove doors that have no free space. Protect walls, columns and walls from splashes.
- Retain the floating character of floating screeds.

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Application EPI Primer Aquapox-N

- Always mix complete units!
- If the application time, project size and mixing equipment allows, double sets may be used.
- Step 1: Mix components A and B carefully with each for approx. 2 minutes to an uniform homogeneous material, with attention to mixing on the bottom and on the edges.
- Pour the mixed material in a clean bucket and add a maximum of 5% water and mix again for 1 minute to a uniform material.
- Step 2: Pour the material onto the floor immediately after mixing. The material is applied with a rubber squeegee and back-rolled with a medium nap roller. Avoid puddles!
- Use clean spike shoes or golf shoes if desired and necessary. (Note: never walk through broadcasted floors!)

Note: Be aware of condensation or other moisture loads early on! Low temperatures and high humidity increase the risk of white discoloration or carbamate formation (sticky surface)

System options:

Slip-resistance:
EPI Hardtop 300 POX-N can be installed with a light surface texture, which creates more grip.

Coving detail:
Sanitary coving can be formed at the connection of wall and floor, which is incorporated into the floor system. EPI Trowel POX mortar can be used for this detail and formed in the desired height. See product information sheet for more information

For specific questions and/or details regarding slip-resistance and coving details etc. please contact one of our advisers or the EPI technical service

Transport and Storage conditions

Store all components in closed packaging, away from the ground. Temperature between +15°C and 25°C. Dry room, avoid direct sunlight. Protect liquid components against frost (also during transport).

Shelf Life

Component A : 4 months from production date.
Component B : 4 months from production date.

Cleaning of tools

Clean all tools and equipment immediately after use with scouring pads and warm, soapy water or mineral spirits. Cured material will require mechanical means of removal.

Cleaning and Maintenance

In order to maintain an optimal skid resistance, regular cleaning is required.

Waste

Attention! Too much residual material in the packaging can become hot due to an exothermic reaction and cause smoke nuisance. Therefore never leave more than 100 grams of mixed product in the packaging and place the packaging in a safe and well-ventilated place. If there is more residual material, add a generous amount of sand to inhibit the exothermic reaction.

CE-marking

The harmonized European standard EN-13813:2002 applies to this synthetic resin flooring material, please refer to the Declaration of Performance for more information.

VOC / Directive 2004/42/EC

EU limit value for the product (category A/j - Type WB) in ready-to-use condition: max. 140 g/l (2010) This product contains <140 g/l VOC.

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EPI Hardtop 300 POX-N, revision date 11/07/2023
EPI-Industrial & Traffic Surfaces B.V. applies the quality control system in conformity with NEN- ISO 9001 / 14001. This means that the products delivered meet the product and quality specifications of this system. Advice given by us with regard to the technical application, whether orally, in writing, or by means of tests, is given to our best knowledge, however without obligation, also with regard to possible protected rights of third parties. This does not relieve the applicator/ user of the obligation to check the products supplied by us as to their suitability for the envisaged aims. The application, use and wear of the products take place beyond our control. Therefore they are your own responsibility. For all claims our own responsibility will be limited to the value of the goods supplied by us and used by you. It is understood that we guarantee the good quality of our products, all this in accordance with the standards referred to in our terms and conditions of sale and supply. All orders are executed under the latest terms and conditions of sale and supply. Users must always consult the latest edition of the product and material safety data sheet before using the relevant product. Copies hereof are made available upon request. EPI-Industrial & Traffic Surfaces B.V. retains the right to alter product specifications and product properties.