EPI Hardtop

800 POX-N



Product Description

EPI Hardtop 800 POX-N is a nonylphenol free, 2-component, solvent-free epoxy high-build coating for industrial applications. The floor system withstands daily traffic from rolling charts and is ideally suited to be used as a floor finish in areas with medium to intensive transport loads.

Product Features

- Seamless and liquid-tight
- Good adhesion properties
- Good chemical resistance
- Easy to apply
- Good abrasive resistance

Application areas

- Warehouses and transport corridors
- Workshops and Garages
- Storage and transfer areas
- Technical rooms
- Parking garages (rigid coating applications)
- Walkways and stairways

Colors

EPI Hardtop 800 POX-N is available in RAL, other colors on request.

Note: Bright, clear and light colors such as bright yellow, light grey, white and off-white have a lower opacity, so that an extra layer can be necessary when the background color differs greatly. Mechanical loads can affect the gloss level.

Technical Information

Density	~ 1,5 gr/cm^3
Abrasion resistance	< 3000 mg
Pull-off strength	≥ 1.5 N/mm^2
Flash point	comp. A: > 55°C comp. B: > 55°C
Hardness Shore	~ D 80
VOC content, EU-limit value cat. A/j	≤ 500 g/l
$TVOC_{28}$	≤ 0.3 mg/m^3
GWP-total	2,31 kg CO_2 eq.
Giscode	RE 30
Solids	100 %
Mixing ratio	comp. A:B = 100:22
General application conditions	Material-, substrate- and ambient temperatures between 15°C and 25°C and minimal 3°C above dewpoint
Optimal installation conditions	Material-, substrate- and ambient temperatures between 18°C and 22°C
Relative humidity	Maximum 85% RH
Application time	20 – 25 min. at 20°C
Foot traffic / re-coat window	After 16 hours at 20°C and 65% RH, next layer within 24 hrs.
Mechanical loads	After 72 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 are conducted in a laboratory environment, values obtained on field applied materials may vary.

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Sustainability

The CO_2 footprint (GWP) of 1 kg EPI Hardtop 800 POX-N has been calculated based on the LCA standard EN15804+A2. The verified EPD is available upon request.

Indoor Air Quality

EPI Hardtop 800 POX-N has been tested as part of a flooring system to meet the requirements of the Indoor Air Quality standards as specified below.

Regulation or Protocol	Classification
AFSSET VOC (French A+)	Pass
Belgian VOC	Pass
German AgBB/ABG	Pass
Italian CAM Edilizia	Pass
Indoor Air Comfort	Pass
DGNB SOC 1.2	Pass
BREEAM International	Exemplary Level
BREEAM Norway	Exemplary Level
BREEAM NL	Exemplary Level
BREEAM UK	Exemplary Level

LEEDv4 – BREEAM - DGNB

LEED, BREEAM & DGNB are preeminent programs for the design, construction, maintenance and operations of high performance "Green Buildings". EPI Hardtop 800 POX-N conform to the following criteria:

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

Packaging

EPI Hardtop 800 POX-N is available in the following packaging unit;
EPI Hardtop 800 POX-N , set 26 kg

- EPI Hardtop 800 POX-N, comp. A : 21.3 kg
- EPI Hardtop 800 POX-N , comp. B : 4.7 kg

Theoretical coverage

EPI Hardtop 800 POX-N
Coverage: approx. 300 – 400 gr/m^2 per layer, depending on the substrate. Please note: Consumption is higher as a finishing layer on broadcast floors; approx. 550 – 1000 grams/m^2.

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. The dimensions and details of these joints will need to be determined based on the function of the expected movements of the concrete floor. Depending on the substrate a mechanical preparation (milling and/or vacuum blasting) is recommended for a good adhesion.

Residual Moisture tolerance

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 vapor emissions is 4.0 lbs. as per ASTM F1869. For anhydrite substrates may contain a maximum of 0,5 % decreasing residual moisture content before the floor system can be applied.

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 % RH for a longer period, which can cause white discoloration and carbamate formation.

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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 800 POX-N applies to the components A and B. These sheets have been drawn up in accordance with the latest European legislation.

Processing of EPI Hardtop 800 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.

System options:

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 noise reduction, crack-bridging and slip-resistance, etc. please contact one of our advisers or the EPI technical service department.

Application Primer / Scratch coat:

Before EPI Hardtop 800 POX-N is applied, the substrate must be provided with a primer / scratch coat. EPI primer/binder 500 POX-NF or EPI primer Aquapox-N (option for absorbent substrate) in combination with EPI primer 400 POX-NF can be used for this. See product data sheet for these products for more information.

Application EPI Hardtop 800 POX-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 a uniform homogeneous material, with attention to mixing on the bottom and on the edges.
- Pour the mixed material in a clean bucket and mix again for approx. 1 minute.
- Step 2: Pour the material onto the floor immediately after mixing. The material is applied with a rubber squeegee in the desired thickness.
- Subsequently, the material is rolled with a short-haired epoxy roller to obtain a uniform finish.
- Clean tools immediately after use.
- Use clean spike shoes if desired and necessary. (attention: do not 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)

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 : 12 months from production date.
Component B : 12 months from production date.

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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.

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 SB) in ready-to-use condition: max. 500 g/l (2010) This product contains <500 g/l VOC.

EPI Hardtop 800 POX-N, revision date 24/12/2025
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.