



Primer

Aquapox-N

Product Description

EPI Primer Aquapox-N is a waterborne, fast-drying, 2-component, solvent- and nonylphenol-free epoxy resin that can be used as a primer or impregnating application on existing coatings, tiles and porous and highly absorbent substrates. EPI Primer Aquapox-N can optionally be scattered with a fine infill material such as clean, fire-dried quartz sand

Product Features

- Fast-curing material
- Easy to apply
- Good mechanical properties
- Good adhesion properties
- VOC free and environmentally friendly
- Odorless

Application areas

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EPI Primer Aquapox-N can be used as low viscous primer application on porous mineral surfaces such as concrete and sable-cement screeds.

Scratch coat

EPI Aquapox-N can be used as low viscous primer in combination with EPI Primer 500 POX-NF and EPI Primer 400 POX as scratch coat.

Theoretical coverage

Application as Primer

EPI Primer Aquapox-N primer uses approx. 150 - 250 gr/m² depending on the roughness of the substrate.

Packaging

EPI Primer Aquapox-N is available in the following packaging unit;

EPI Primer Aquapox-N primer, set 12 kg;

- EPI Primer Aquapox-N, comp. A : 2.0 kg
- EPI Primer Aquapox-N, comp. B : 10.0 kg

Technical Information

Density	~ 1,35 gr/cm ³
Viscosity @ 5 rpm	17500 mPa.s
Pull-off strength	>1.5 N/mm ²
VOC content, EU limit cat. A/j	≤ 140 g/l
Giscode	RE 20
Solids	approx. 82% 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. 2-3 hrs at 20°C and 65% RH
Re-coat window	After approx. 3 hrs with epoxy products and after approx. 12 hrs with polyurethane products
Foot traffic	After approx. 3 hrs 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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Sustainability

EPI Primer Aquapox-N has been tested as part of a flooring system to meet the requirements of the Indoor Air Quality standards as specified below. When applying the criteria for EMICODE, classification in the EMICODE EC1 category would be possible.

Regulation or Protocol	Classification
AFSSET VOC (French A ⁺)	PASS
Belgische VOC	PASS
AgBB/ABG	PASS
Italiaanse CAM Edilizia	PASS
EU Ecolabel	PASS
Indoor Air Comfort Gold	PASS
RTS M1 (Finland)	PASS
CDPH	PASS
BREEAM International	Exemplary Level
LEEDv4.1	PASS
DGNB	PASS

LEED v4 – BREEAM - DGNB

LEED, BREEAM & DGNB are preeminent programs for the design, construction, maintenance and operations of high performance "Green Buildings". EPI Primer Aquapox-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 4
 - 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 require a minimum cohesion strength of 1,5 N/mm² and a minimum compressive strength of 25 N/mm² 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 Primer Aquapox-N applies to the components A and B. These sheets have been drawn up in accordance with the latest European legislation.



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Application of EPI Primer Aquapox-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.

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 a 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 - 10% water and mix again for approx.. 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, this improves levelling of the material and removes possible squeegee lines.
- Use clean spike shoes or golf shoes if desired and necessary. (Note: never walk through broadcasted floors!)

Note: Beware of condensation or other early moisture exposure! 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 30°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.

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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Product Data Sheet
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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.