Product Datasheet

2-Component Epoxy Moisture Barrier

UZIN PE 480

Epoxy primer for blocking residual moisture, with coloured components to indicate when mixed

MAIN APPLICATION FIELD:

- barrier primer on unheated cementitious screeds without any limitation on residual moisture
- barrier primer on heated constructions up to 90 % R. H.** (3 CM-%)

SUITABLE ON / FOR:

- dense or absorbent existing substrates
- cement or gypsum screeds, magnesia or xylolite screeds, concrete, P4 - P7 and OSB 2 - OSB 4 boards or precast screeds
- on existing or ungritted mastic asphalt
- ceramic or natural stone floors, terrazzo, metal (contact UZIN Technical Service for advise), matt-sanded coatings and sealants
- gritted or in conjunction with UZIN PE 280 prior to installation with UZIN cement or calcium sulphate levelling compounds

PRODUCT BENEFITS/FEATURES:

UZIN PE 480 is a high-quality epoxy resin primer, that hardens, in contrast to many other epoxy resins, on wet substrates. For interior and exterior use.

- anhydrous
- very good filling capacity
- resistant against water, frost and chemicals
- can be used on wet substrates
- reduces waiting time on new installed substrates

TECHNICAL DATA:

Packaging	metal combi can
Pack size	5 kg, 10 kg
Shelf life	min. 12 months
Mixing ratio	A : B = 100 : 50 parts per weight
Consumption	250 - 500 g/m² per coat*
Working time	30 - 45 minutes*
Pot life	30 - 45 minutes*
Drying time	12 - 24 hours*
Minimum application temperature	10 °C at ground level and +3 °C above dew point
Final strength	after 3 - 5 days*

*At 20 °C and 65% relative humidity. See "Application Chart".

**According to DIN EN 17668.

EPD

LEED® CONTRIBUTING PRODUCT

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UZIN PE 480

EXTENDED APPLICATIONS:

- hardener primer for weak, porous or cracked substrates
- bonding primer prior to installation with levelling compounds
- Epoxy mortar when mixed with UZIN XS 3.2 special filler
- primer prior to bonding work with epoxy, PUR or silane based adhesives

SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and free from materials (dirt, oil, grease) that would impair adhesion. Test the substrate in accordance with applicable standard or notices and report any deficiencies. Any adhesion-reducing or unstable layers, e.g. release agents, loose adhesives, compounds, covering or paint residues, etc. must be removed, e.g. by brushing, abrading, grinding or shot-blasting. Dense, smooth and metal surfaces should be degreased and abraded. On metal, pre-test for adhesion strength. Allow the primer to dry completely. The datasheets for other used products have to be observed.

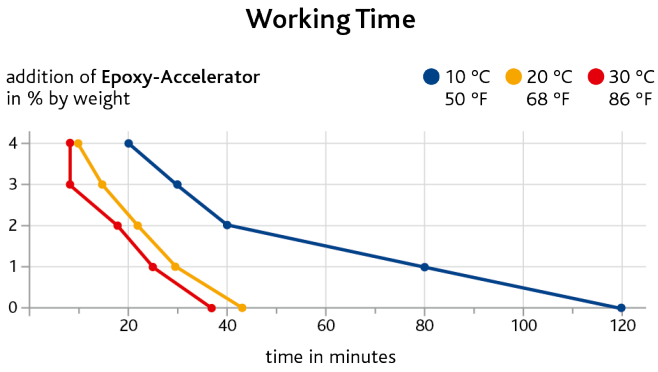
APPLICATION:

1. Before use, allow the combi-cans to come to room temperature. Punch several times through the plastic plug and the floor of the upper container (hardener B). Allow the hardener to drain completely into the lower container (resin A). Remove the empty upper container and thoroughly blend the components with a spiral mixer (A). Decant the mixed material into an oval bucket and mix once again.
2. Immediately apply an even coat of the primer onto the substrate with the UZIN Nylon Fibre Roller (B). On smooth surfaces, it can be spread with a B2 notched trowel and then evenly rolled out. Ensure a fully sealed coat. Pay attention to the limited working time.
3. When the coat is dry to accept foot traffic, but within 48 hours, apply the second coat crosswise.
4. With subsequent application of levelling compounds, the last wet coat has to be gritbinded immediately with UZIN Quartz Sand 0.8 (approx. 3 kg/m²). After curing vacuum thoroughly.
5. In case of using UZIN PE 460 as a moisture barrier and using UZIN PE 280 as a bonding primer on top, the minimum quantity of UZIN PE 460 has to be 500 g/m² in one layer.
6. Clean tools immediately after use considering the recommended safety measures. Hardened material can only be removed mechanically. When applying the material always wear the recommended safety equipment.

PRACTICAL NOTE:

To accelerate the setting proces, up to max. 4% of UZIN Epoxy Accelerator can be added to the primer. The application of the following coat can therefore be carried out earlier, ideally at the same day.

The working and setting time when using the accelerator are shown in the following diagrams:



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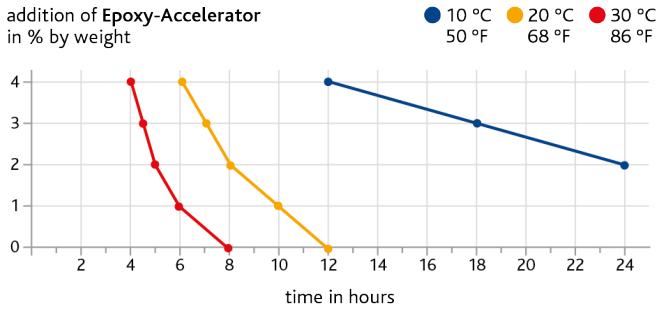
UZIN PE 480

Set to Foot Traffic



An addition of 2% allows a 2-coat application within one day.

Caution: The working time with 4% of the accelerator is dramatically reduced. Only use this quantity with adequate experience and lower temperatures!

APPLICATION CHART:

Foundation / Application	Consumption	Drying Time
Rough, shotblasted or milled substrates	300 - 500 g/m²	8 - 24 hours*
Slightly shotblasted substrates, application with B2 notched trowel	approx. 500 g/m²	
Sanded substrates, old adhesive residues	250 - 350 g/m²	
Smooth, dense, non absorbent substrates	200 - 300 g/m²	
Barrier on new, trowelled, smoothed cementitious screeds	1st coat: approx. 350 g/m² 2nd coat: approx. 250 g/m²	

*At 20 °C and 65% relative humidity, with tempered container. Material consumption is increase at lower temperatures and depends on the roughness of the substrate.

IMPORTANT NOTES:

- A shelf life of 12 months when stored in moderately cool conditions, in the original packaging. Allow containers to come to room temperature before use.
- Best applied between 15 - 20 °C, with the floor temperature above 15 °C and relative air humidity below 65%. High temperatures and high air humidity shorten the drying time. Whilst low temperatures and low air humidity lengthen the drying time.
- **Caution:** Epoxy material can become extremely hot after mixing in the container. Therefore use the material immediately, don't leave the container unattended after mixing and take the bucket outside after use to allow residues to cure.
- Concrete substrates have to be at least 3 days old.
- Contact UZIN Technical Service for advice if a moisture barrier is required on cementitious screeds with underfloor heating or concrete sole plates are present.
- When used over underfloor heating ensure it has been commissioned and fully tested in accordance with the manufactures guidelines.
- If installing wooden floors with UZIN reactive resin adhesives directly to the primer this must happen within 48 hours after applying the primer.
- For use in PAH decontamination please refer to the detailed system recommendations and notes on the internet (www.uzin.com).
- For priming metal substrates, prepare a test area or contact UZIN Technical Service for advise.
- Protect freshly applied epoxy mortar areas from draughts, direct sunlight and sources of heat.
- Do not mix partial quantities!
- Follow the generally acknowledged rules of the trade and technology for the installation of wood flooring and floor covering in respective of the applicable national standards (e.g. EN, DIN, OE, SIA, etc.).

SEALS OF QUALITY & ECOLABELS:

- Solvent-free
- Suitable for sustainable building certifications according to: DGNB, QNG, BREEAM, LEED

COMPOSITION:

Polyamine-hardened epoxy resin.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Solvent-free. Non flammable. Comp. A: Contains epoxy resin/irritant. May damage fertility. Restricted to professional users. Comp. B: Contains amine hardener/corrosive. Both components: May cause irritations or burns to eyes, skin or respiratory system. May cause sensitisation by skin contact. After contact with skin, wash immediately with plenty of water and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Use barrier cream, protective gloves and safety-goggles. In liquid form, ”hazardous to the environment”, therefore do not allow into drains, water courses or landfill. Observe safety information on product label as well as safety data sheet.

DISPOSAL:

Where possible, collect product residues and re-use. Do not allow dispersal into drains, sewers or ground. Empty, scraped and drip-free containers are recyclable. Containers with liquid residue, as well as the liquid product, are classed as Special Waste. Dried product residues are classed as Construction Waste. Therefore collect waste material, mix both components and allow to harden, then dispose as Construction Waste.

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