

2-Component Water-Based Epoxy Primer

UZIN PE 425 NEW

Universal epoxy primer for reinforcement of weak screeds or prior to the moisture suppressant system

MAIN APPLICATION FIELD:

- reinforcement of weak, porous and sanding cementitious and calcium sulphate screeds
- reinforcement of screeds with low strength
- system primer prior to direct installation with UZIN PUR and STP wood flooring adhesives
- bonding primer on low absorbent substrates
- used as moisture suppressant on calcium sulphate screeds (see important notes)

SUITABLE ON / FOR:

- cementitious screeds or concrete
- calcium sulphate screeds, precast screeds
- P4 - P7 chip board and OSB 2 - OSB 4 boards
- existing and new IC 10 and IC 15 mastic asphalt screeds
- existing ceramic and natural stone coverings, terrazzo or similar
- metal (aluminium, copper, brass, galvanised steel)
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529 from 1 mm thickness
- suitable for residential, commercial and industrial areas
- prior to installation with UZIN cement or calcium sulphate levelling compounds in combination with UZIN PE 280



PRODUCT BENEFITS/FEATURES:

UZIN PE 425 NEW is a water-based, 2-component epoxy penetrating primer for reinforcing weak screeds with insufficient strength as well as for priming prior to the installation of the moisture suppressant systems. For interior and exterior use.

- easy to use
- deep reinforcement of the upper screed zone
- improves shear strength
- can be used in the moisture suppressant system on calcium sulphate screeds
- improves the bonding strength with UZIN STP and PUR adhesives
- can be overlaid in combination with UZIN PE 280
- diluted with 10% water
- vapour diffusive



TECHNICAL DATA:

Packaging	A + B plastic canister
Pack size	9 kg (A: 6 kg / B: 3 kg)
Shelf life	min. 12
Mixing ratio	see "Application Chart"
Consumption	see "Application Chart"
Pot life	60 - 90
Drying time	see "Application Chart"
Minimum application temperature	15 °C at ground level
Final strength	after 3 - 5

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



EXTENDED APPLICATIONS:

- impregnation of screeds

APPLICATIONS:

The penetrating primer is used for reinforcement when the load-bearing capacity of the existing screed, either with renovation work or after new installations, is apparently reduced or shedding excess sand. In these cases the screed does not meet the standard requirements (DIN EN 13813, DIN 18560) and therefore can not be overlaid according to the specifications for common installation materials.

Because of its excellent penetration capability the penetrating primer is able to clearly reinforce the area of the screed cross-section relevant for the floor covering installation. Experiential values show that with screeds with very low strength the strength can be doubled by applying two coats of UZIN PE 425 NEW. The higher the strength of the present screed the lower the additional gain in strength by using the penetrating primer. It is not possible to predict the exact strength gained by applying UZIN PE 425 NEW for each case. Before installing textile and resilient floor covering over the reinforced surface, it should be primed with UZIN PE 280 followed by a suitable UZIN levelling compound. Wood flooring can directly be installed with UZIN PUR or STP adhesives.

Can be used as a moisture suppressant on calcium sulphate when used as part of a system (see important notes)

SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from materials (dirt, oil, grease) that would impair adhesion. Cement and calcium sulphate screeds must be abraded and vacuumed. 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. Used, smooth and non-absorbent substrates have to be cleaned intensively with UZIN Basic Cleaner and once dry must have a matt finish. Thoroughly vacuum loose material and dust. Allow the primer to dry completely.

The datasheets for other used products have to be observed.

APPLICATION:

1. Before use, allow both containers to come to room temperature and shake well. Pour the content of both components (mixing ratio A:B = 2:1 parts per weight) together in a clean oval bucket. When mixing part quantities the use of a measurement cup is recommended. Slowly mix for 2 minutes with a spiral stirrer until the material has a uniform colour. When

used as a reinforcement primer, add 10% of water and continue mixing for 2 minutes.

2. Apply an even coat of primer immediately onto the surface using the UZIN Nylon Roller. Avoid pooling.
3. The mixed material has to be applied completely within the working time of 60 - 90 minutes. When used as a reinforcement primer, apply the second coat as soon as the first coat is ready for foot traffic, latest 1 - 2 hours after the application of the first coat.
4. Clean tools with water after use. During application and cleaning, always wear the recommended protective equipment (suitable safety gloves are listed in the safety data sheet at point 8).

APPLICATION CHART:

Foundation / Application	Consumption	Drying Time
Weak, sanding, absorbent cementitious screeds / cementitious screeds with insufficient strength	1st coat UZIN PE 425 NEW 100 - 150 g/m ² (2 parts A + 1 part B + 10% water)	approx. 1 hour*
	2nd coat UZIN PE 425 NEW 50 - 150 g/m ² (2 parts A + 1 part B + 10% water)	2 - 4 hours*
	UZIN PE 280 (pure) 80 - 120 g/m ²	approx. 45 minutes*
Dense substrates (chipboard, mastic asphalt, natural stone, ceramic tiles, terrazzo, metal)	UZIN PE 425 NEW 50 - 150 g/m ² (2 parts A + 1 part B + 10% water)	2 - 4 hours*
	UZIN PE 280 (pure) 80 - 200 g/m ²	approx. 45 minutes*
Sanding, absorbent calcium sulphate screeds	UZIN PE 425 NEW 50 - 150 g/m ² (2 parts A + 1 part B + 10% water)	approx. 12 hours*
	UZIN PE 280 (pure) 80 - 200 g/m ²	approx. 45 minutes*
Prior to direct installation of wood flooring with UZIN PUR and STP adhesives	UZIN PE 425 NEW 100 - 150 g/m ²	2 - 4 hours*
DPM system for calcium sulphate**	1st coat UZIN PE 425 NEW 100 - 150 g/m ² (2 parts A + 1 part B + 10% water)	max. 1 - 2 hours
	2nd coat UZIN PE 425 NEW 50 - 150 g/m ² (2 parts A + 1 part B + 10% water)	min. 12 hours - max. 48 hours
	Uzin PE 404 - 2x coats approx. 125 - 165 g/m ² per coat	1 hour per coat (2x coats - 2 hours)
	Uzin PE 280 (pure) 80 - 200 g/m ²	approx. 45 minutes

*At 20 °C and 65% relative humidity, depending on the roughness and the absorbency of the substrate. See "Important Notes".

**Once dry ensure 2 coats of resin based DPM are then applied such as UZIN PE 404, UZIN PE 460 or UZIN PE 480. Also see important notes.

IMPORTANT NOTES:

- The original container can be stored for at least 12 months if stored in a moderately cool place. Reseal opened containers tightly and use the contents quickly. Allow primer to come to room temperature before use.

- Best installed at 15 - 25°C, substrate temperature above 15 ° C and rel. Humidity below 65% RH. Low temperatures and high air humidity lengthen the curing time while high temperatures and low air humidity shorten the curing times.
- When using UZIN PE 425 within the DPM system, it is important to ensure that prior to the application of the PE 425; the surface of the calcium sulphate has been ground back fully to expose the coarse aggregate, making sure any contaminants are removed that would impair the adhesion of the PE 425. This will allow the PE 425 to penetrate into the calcium sulphate developing a full matrix of seal and supported material. In conjunction with underfloor heating to 90% RH, without underfloor heating to 95% RH. If there is doubt when using this system, you must contact UZIN Technical prior to the application of any materials.
- With impregnation work a trial surface should be used to check whether UZIN PE 425 NEW can penetrate the substrate sufficiently; the concentrate mixed with water should be noticeably absorbed within a few minutes. No film should form on the surface after use.
- If the substrate requires reinforcement then the substrate must be dry. In case of residual rising moisture in the substrate, use epoxy primers, e.g. UZIN PE 460 or PE 480.
- Excessive substrate moisture above 95% RH and inadequate ventilation during the setting process or excessive application amounts cause a milky-white non-setting binding agent film and should therefore be avoided.
- In case of subsequent levelling works use UZIN PE 280 as an intermediate primer, wood flooring must be installed with UZIN dispersion-based or 2-comp. PUR adhesives or Pallmann P6.
- The consumption largely depends on the roughness, structure and absorbency of the substrate. The consumption amount listed as approximate value can therefore not be guaranteed and may clearly differ from case to case. We suggest in such cases to create a trial.
- 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
- EMICODE EC 1 PLUS / Very low emission

COMPOSITION:

Polyamine-hardened epoxy resin.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Solvent-free. Non flammable. Comp. A: Contains epoxy resin/irritant. 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. Once cured, has neutral odour and presents no physiological or ecological risk.

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.