

Resin Moisture suppressant

UZIN PE 404

1-component, rapid drying resin Residual Moisture suppressant

MAIN APPLICATION FIELD:

A 1-component polyurethane Moisture suppressant up to 98% RH*.

Rapid primer for use prior to bonding of wood flooring with reaction resin adhesives.

For interior use only.

SUITABLE ON / FOR:

- ▶ a rapid primer prior to bonding wood flooring with UZIN reaction resin adhesives on cement, calcium sulphate and stone-wood screeds, concrete, chipboard and existing surfaces with well-bonded adhesive
- ▶ cement, calcium sulphate and stone-wood screeds, concrete, chipboard
- ▶ residual moisture content up to 98% RH* (2 coats)
- ▶ warm water underfloor heating (see important notes)
- ▶ exposure to castor wheels in accordance with DIN EN 12 529
- ▶ priming, when grit-blinded with UZIN Quartz Sand 0.8, prior to smoothing and levelling work with UZIN compounds



PRODUCT BENEFITS/FEATURES:

Ready mixed, one-component, rapid drying moisture suppressant. Low viscosity, quick and easy to apply

- ▶ Rapid drying
- ▶ Easy to use
- ▶ Ready mixed
- ▶ Solvent-free



TECHNICAL DATA:

Packaging	plastic canister
Pack size	10 kg
Shelf life	12 months
Colour	red
Consumption	approx. 125 – 165 g/m ² per coat
Drying time	approx. 60 minutes, see table overleaf
Minimum application temperature	15 °C /59 °F at floor level



SUBSTRATE PREPARATION:

The substrate must be sound, flat, free from cracks, clean and free from materials that would impair adhesion. New calcium sulphate screeds must be abraded and vacuumed.

Test the substrate in accordance with applicable standards and notices and report any deficiencies.

Remove any soft or weakly bonded layers, e.g. separating agents, all residues of adhesive, levelling compounds, coatings, sealers, care products or paint, etc. by brushing, abrading, grinding or shot-blasting. Other substrate surfaces should be mechanically keyed. For very smooth or extremely hard surfaces, e.g. power-floated concrete or hard magnesia screeds, shot-blasting is required.

Thoroughly vacuum all loose material and dust. Always allow primers to dry completely.

Refer to the Product Data Sheets for other products used.

APPLICATION:

1. Ensure containers to come to room temperature and shake well before use. Empty the contents into a clean, oval bucket.
2. Apply an even coat onto the substrate using the UZIN Nylon Fibre Roller, ensuring the whole surface is completely covered. Avoid forming puddles. Allow to dry (approx. 60 minutes).
3. **For subsequent installation of wood flooring with UZIN reactive resin adhesives on dense or less absorbent substrates:** Apply UZIN PE 404 with the UZIN Nylon Roller. On very smooth and flat calcium sulphate flow screeds or precast screeds its also possible to use a squeegee. Wood flooring has to be installed within 72 hours after application.
4. Once cured apply a second coat as described above. Before installing a smoothing compound apply a coat of UZIN PE 280 primer.
5. Clean tools with the UZIN Clean Box wipes immediately after use.

CONSUMPTION:

Application	Drying time per layer
Dense to slightly absorbent surfaces	60 - 90 mins.*
Absorbent surfaces	40 - 60 mins.*
Prior to direct installation with Pallmann PUR or STP adhesives	min. 2 hours*
Prior to direct installation with Pallmann P6	min. 12 hours*
On mastic asphalt prior to direct installation with Pallmann PUR or STP adhesives	min. 12 hours* / overnight drying

IMPORTANT NOTES:

- ▶ Shelf life of 12 months in original containers when stored in relatively cool conditions. Tightly re-seal opened containers and use as quickly as possible. Before use, allow to come to room temperature.

- ▶ Optimum installation conditions are 18 – 25 °C / 64 – 77 °F and floor temperature above 15 °C / 59 °F. Low temperatures and low air humidity extend the drying time, high temperatures and high air humidity shorten the drying time.
- ▶ Can be used to protect calcium sulphate screeds up to 95 % RH and drying when used in conjunction with UZIN PE 425. See the UZIN PE 425 product data sheet or contact UZIN technical for more information.
- ▶ UZIN PE 404 can also be used as a stand alone moisture vapour suppressant over a calcium sulphate screed that is below 85 % RH and drying. It is important to ensure that prior to the application of the UZIN PE 404; the surface of the calcium sulphate has been full ground to remove all materials that may be deleterious to the performance of the UZIN PE 404. This always entails grinding down to where the coarse aggregate of the calcium sulphate screed is fully exposed. This will allow the UZIN PE 404 to penetrate into the calcium sulphate developing a full “matrix” of sealed and supported material. UZIN PE 280 must be used as a primer before a suitable UZIN smoothing compound is used to prepare the surface. If there is any doubt or confusion, you must contact your UZIN technical representative for a site inspection or confirmation prior to the application of any UZIN materials.
- ▶ Suitable for heated concrete and sand cement screeds up to 90 % RH as well as calcium sulphate screeds when used in conjunction with PE 425. The surface temperature should not exceed 27 °C. The underfloor heating system should have been installed in accordance with the manufacturer’s instruction manual and as per the British Standards. The underfloor heating system should be turned off for 48 hours prior to installation and 48 hours after the flooring installation. The underfloor heating system should then be gradually recommissioned to avoid thermal shock and temperature variation.
- ▶ It is not a substitute for a structural damp-proof membrane in accordance with DIN 18 195 Part 4.
- ▶ In the case of moisture values higher than 98 % RH, use UZIN PE 460 or UZIN PE 480.
- ▶ If installing wooden floors with UZIN reactive resin adhesives directly to the primer this must happen within 72 hours after applying the primer.
- ▶ Follow the generally acknowledged “best practice” requirements and technology for the installation of wood flooring as well as all respective applicable standards (e.g. EN, DIN, OE, SIA, etc.). The following standards and bulletins represent supporting information and are recommended for special attention:
 - DIN 18 365 “Working with floor coverings”
 - DIN 18 356 “Working with wood flooring”
 - DIN 18 195 “Structural damp-proofing”
 - TKB publication “Assessment and preparation of substrates for floor covering and wood flooring work”
 - BEB publication “Assessment and preparation of substrates”

SEALS OF QUALITY & ECOLABELS:

- ▶ Solvent-free
- ▶ EMICODE EC 1 PLUS / Very low emission

COMPOSITION:

Moisture-curing, modified polyurethane prepolymers.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Solvent-free. Non flammable. Contains diphenylmethane-diisocyanate (MDI). Harmful on inhalation. Irritating to eyes, respiratory system and skin. There is limited evidence of a carcinogenic effect for respirable vapours of MDI. Harmful: May cause damage to organs through prolonged or repeated exposure. May cause sensitisation by inhalation and skin contact. Provide good ventilation. Use barrier cream, protective gloves and safety-goggles. 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. Observe safety information on product label as well as safety data sheet. Once cured, has a 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 and allow to harden, then dispose as Construction Waste.