PRODUCT DATA SHEET

Resin DPM

UZIN PE 404

1-component, rapid drying resin DPM

Description:

1-component polyurethane DPM up to 95 % RH.*
For interior use only.

Suitable as / for:

- on cement, calcium sulphate and stone-wood screeds, concrete, chipboard
- residual moisture content up to 95 % RH* (2 coats)
- warm water underfloor heating (see important notes) and for exposure to castor wheels in accordance with DIN EN 12 529

UZIN PE 404 is rapid drying, making it ideal for projects with time constraints.

Product Properties / Benefits:

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

Binder: Moisture-cured, modified polyurethane pre-polymers.

- Rapid drying
- Easy to use
- Ready mixed
- Solvent-free
- EMICODE EC 1 R PLUS / Very low emission

Technical Data:

Packaging:	plastic canister
Pack size:	10 kg
Shelf life:	min. 9 month
Colour:	red
Working temperature:	min. 15 °C / 59 °F at floor level
Consumption:	approx. 125 – 165 g/m² per coat
Curing times:	approx. 60 minutes, see table overleaf

*see important notes.

UZIN | A brand of Uzin Utz Group

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UZIN PE 404

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. Once cured apply a second coat as described above. Before installing a smoothing compound apply a coat of UZIN PE 280 primer.
4. Clean tools with the UZIN Clean Box wipes immediately after use.

Curing Times:

Substrate	Application Equipment	Drying time per coat	Consumption
Dense to slightly absorbent surfaces	UZIN Nylon Fibre Roller	60 – 90 mins.*	approx. 125 – 165 g / m²
Absorbent surfaces	UZIN Nylon Fibre Roller	40 – 60 mins.*	approx. 150 – 165 g / m²

*At 20 °C and 65 % relative humidity.

Important Notes:

- Shelf life minimum 9 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 95 % RH, use UZIN PE 460 or UZIN PE 480.
- 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"

Protection of the Workplace and the Environment:

Solvent-free. Non flammable. Harmful. Contains diphenylmethane-diisocyanate. Harmful on inhalation. Irritating to eyes, respiratory system and skin. There is limited evidence of a carcinogenic effect for respirable vapours of MDI. May cause sensitisation by inhalation and skin contact. Use barrier cream, protective gloves and safety-goggles. Provide good ventilation. 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. Does not contaminate the indoor air quality with either formaldehyde or other volatile compounds. EMICODE EC 1 R PLUS – very low emission.

Disposal:

Where possible, collect product residues and re-use. Do not empty into drains, sewers or ground. Empty, scraped and drip-free plastic containers are recyclable. Containers with liquid residues are special waste, those with cured residues are Construction Waste. Therefore collect waste material and allow to harden, then dispose as Construction Waste.