

UZIN PE 414 Turbo

One-component reaction resin primer for wood flooring and floor covering work

Description:

1-component polyurethane rapid primer for use prior to bonding of wood flooring with reaction resin adhesives. To act as a strengthener and barrier-coat on absorbent and non-absorbent surfaces. As a barrier primer on moisture-resistant substrates with high residual moisture.

Suitable as / 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 residues
- ▶ strengthening of absorbent, mineral surfaces such as cement-, calcium sulphate-, magnesia- and stone-wood-screeds, concrete, etc.
- ▶ priming on existing surfaces with well-bonded residues of smoothing compounds or water-soluble adhesives (e.g. sulphite adhesives)
- ▶ priming on moisture-sensitive surfaces such as chipboard and OSB board, as well as gypsum-based dry screed materials
- ▶ barrier-priming with 2 coats on cement-based, moisture-resistant substrates such as cement screeds and concrete, up to a residual moisture content of 93 % RH. With 3 coats up to 97 % RH.
- ▶ priming, when grit-blinded with UZIN Quartz Sand 0.8, prior to smoothing and levelling work with UZIN compounds
- ▶ use in domestic, commercial and project locations
- ▶ UZIN PE 414 Turbo allows for fast and time-saving installation of bonded wood flooring. The primer cures on the surface extremely quickly, then wood flooring can be bonded with UZIN reaction resin adhesives as soon as the primed surface can be walked on. This is often possible after only approx. 30 – 50 mins.
- ▶ warm water underfloor heating and for exposure to castor wheels in accordance with DIN EN 12 529



Product Properties / Benefits:

Ready to use, rapid polyurethane primer. Low viscosity, easy to apply, one-component, therefore no material waste due to mixing too much product.

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

- ▶ Very rapid hardening
- ▶ Easy roller or trowel application
- ▶ Excellent penetration
- ▶ Water-free
- ▶ Solvent-free
- ▶ EMICODE EC 1 R PLUS / Very low emission

Technical Data:

Packaging:	plastic canister
Packsize:	6 kg
Shelf life:	min. 9 months
Colour:	brown
Working temperature:	min. 15 °C / 59 °F at floor level
Consumption:	80 – 150 g / m ² per coat
Curing times:	see chart on the back side

Substrate Preparation:

The substrate must be sound, level, 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 weakly-bonded or soft surface areas, e.g. separating agents, loose residues of adhesives, smoothing compounds, coverings or coatings, etc. by brushing, abrading, grinding or shot-blasting.

Thoroughly vacuum any loose material and dust.

Always allow primers to dry/cure thoroughly.

Refer to the Product Data Sheets for other UZIN products used.

Application:

1. Before use, allow containers to come to room temperature and shake well. Then decant the contents into a clean, oval bucket.
2. Apply a full, even coat of primer using the UZIN Nylon Fibre Roller, UZIN Foam Roller or a squeegee. Avoid any pooling as, otherwise, it will not cure or the cure will be extremely retarded. (In thicker coats, UZIN PE 414 Turbo forms a skin and this heavily delays the curing).
3. As a rapid primer without scattering with quartz sand prior to bonding of wood flooring with UZIN reaction resin adhesives, and on surfaces that are dense or only slightly absorbent, it is normally sufficient to apply one coat with a squeegee or the UZIN Nylon Fibre Roller. The direct adhesion of the wood flooring onto the primed surface must be within 48 hours.
4. To strengthen surfaces that are highly absorbent and not adequately sound or sanding, the UZIN PE 414 Turbo is applied in 1 to 2 coats using the UZIN Nylon Fibre Roller.
5. If the primer is used as a barrier against residual moisture in cement screeds or concrete, it is always necessary to apply two coats using the UZIN Nylon Fibre Roller and with a total consumption of min. 250 – 300 g/m². Curing / revision: first coat after setting to foot traffic (approx. 60 minutes), cure second coat over night.
6. If the primed surface, once hardened, will be prepared with smoothing compound, the last coat (still wet) must be immediately and fully scatter-coated with UZIN Quartz Sand 0.8 to form a dry excess (approx. 2 – 2.5 kg/m²). After curing, brush and vacuum off any loose sand.
7. Clean tools immediately after use with UZIN Clean Box. Hardened material can only be removed by mechanical means.

Application Chart / Curing Times:

Substrate	Application Equipment	Drying time per coat	Consumption
Dense to slightly absorbent surfaces, e.g. calcium sulphate screed, prior to direct bonding with reaction resin adhesives (MK 92 S/MK 95)	Squeegee UZIN Nylon Fibre Roller	30 – 50 mins.* 60 – 90 mins.*	approx. 60 – 120 g/m ² approx. 100 – 200 g/m ²
Dense to slightly absorbent surfaces, e.g. calcium sulphate prior to direct bonding with UZIN MSP/STP (e.g. UZIN MK 200)	Squeegee UZIN Nylon Fibre Roller	min. 120 mins.* min. 120 mins.*	approx. 60 – 120 g/m ² approx. 100 – 200 g/m ²
Absorbent surfaces, e.g. cement screeds	UZIN Nylon Fibre Roller	40 – 60 mins.*	approx. 150 g/m ²
Existing surfaces with well-bonded adhesive residues	UZIN Foam Roller	60 – 90 mins.*	approx. 100 – 150 g/m ²
Prior to direct bonding with UZIN MK 250, UZIN MK 200 PLUS	UZIN Nylon Fibre Roller	min. 12 hours.*	approx. 100 – 200 g/m ²

*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 lengthen, whilst high temperatures shorten the curing time.
- ▶ When using as a barrier against moisture, a 2-coat application is always required. It is not a substitute for a structural damp-proof membrane in accordance with DIN 18 195 Part 4.
- ▶ On very highly absorbent surfaces, the application of a second coat should be allowed for in preliminary calculations.
- ▶ Direct bonding with reaction resin adhesives must follow within 48 hours after application of the primer.
- ▶ In the case of moisture values higher than 97 % RH, use 2-Component Epoxy Primer-Sealer UZIN PE 460 or 2-Component Epoxy Moisture Barrier 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 mixed and cured residues are Construction Waste. Therefore collect waste material and allow to harden, then dispose as Construction Waste.