

1-Component PU Rapid Primer

UZIN PE 414 BiTurbo

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

Description:

UZIN PE 414 Turbo is a ready to use and fast 1-component polyurethane primer without any emollient ingredients. For interior use.

As a barrier primer:

- ▶ on unheated cement screeds or concrete with residual moisture up to 4 CM-% /95 % R.H.** with 2 – 3 layers
- ▶ on heated constructions up to 2,5 CM-% with 2 – 3 layers

As a system primer:

- ▶ prior to installation of wood flooring with UZIN reaction resin adhesives

As a strengthening primer:

- ▶ on weak, porous or cracked substrates

As a bonding primer:

- ▶ on dense or very absorbent substrates
- ▶ on moisture-sensitive substrates (e.g. chipboard and OSB board, gypsum-based dry screed material)
- ▶ on new mastic asphalt
- ▶ in connection with UZIN PE 280 prior to levelling work with UZIN cement- or calcium sulphate levelling compounds
- ▶ on warm water underfloor heating system
- ▶ for exposure to casting wheels in accordance with DIN EN 12 529
- ▶ for heavy wear in domestic, commercial and industrial locations



Product Benefits / Properties:

UZIN PE 414 Turbo impresses by its spacious field of application.

Composition: Moisture-curing, modified polyurethane pre-polymers.

- ▶ Easy to handle
- ▶ Easy roller or trowel application
- ▶ Excellent penetration
- ▶ Quick drying
- ▶ Barrier effect up to 4 CM-% /95 % R.H.**
- ▶ Solvent-free
- ▶ EMICODE EC 1 R PLUS/very low emission

Technical Data:

Packaging:	plastic canister
Packsizes:	6 kg, 12 kg
Shelf life:	min. 9 months
Colour wet/dry:	brown
Consumption:	80 – 150 g/m ² per coat*
Working temperature:	min. 15 °C / 59 °F at floor level
Drying times:	see chart on the back side

* At 20 °C / 68 °F and 65 % relative humidity.
** according to ASTM F 2170-17



UZIN | A brand of Uzin Utz Group

DE | Uzin Utz AG | Dieselstraße 3 | 89079 Ulm | Telefon +49 731 4097-0 | Telefax +49 731 4097-110 | E-Mail info@uzin.de | Internet www.uzin.de
GB | Uzin Utz UK Ltd. | Unit 2, Mitchell Court | Central Park, Rugby, Warwickshire | CV23 0UY | Phone +44 1788 530 080 | Fax +44 1788 536 508
E-mail uzin.uk@uzin-utz.com | Internet www.uzin.co.uk



Substrate Preparation:

The substrate must be sound, load bearing, dry, free from cracks, clean and free from materials which would impair adhesion (e.g. dirt, oil, grease). Cementitious screeds must be abraded and vacuumed thoroughly. The substrate must be tested in accordance with applicable standards and bulletins and any deficiencies must be reported.

Any weakly bonded or soft surface sections (e.g. separating agents, loose residues of adhesives, levelling compounds, coverings or paints) have to be removed by brushing, abrading, grinding or shot-blasting. Thoroughly vacuum to remove loose material and dust. Always allow the primers to dry completely.

Refer to the Product Data Sheets for other products used.

Application:

1. Before use, allow containers to come to room temperature and shake well.
2. **Prior to wood flooring installation with UZIN reaction resin adhesives** on dense or less absorbent substrates, apply PE 414 Turbo with the UZIN Nylon Roller (Art. no: 9394). On smooth, very flat calcium sulphate flow screeds or precast screeds as primer under wood flooring adhesives spreading with a squeegee is also possible. Perform wood flooring bonding on dust and dirt-free surfaces within 72 hours; otherwise sand surface in between and vacuum if necessary.

To strengthen surfaces that are highly absorbent and not sufficiently sound, UZIN PE 414 Turbo is applied in 1 to 2 not foaming coats using the UZIN Nylon Roller.

As a barrier against residual moisture a 2-coat-application with the UZIN Nylon Roller is necessary. The second coat can be applied after the first coat is set to foot traffic (after approx. 60 minutes) and needs a drying time for at least one hour.

In case of subsequent levelling work prior to floor covering work UZIN PE 280 has to be applied on the cured primer. Levelling works can be done after approx. 1 hour. If there is a need for a moisture barrier a 2-coat-application is also necessary here.

3. Clean tools immediately with the cloths of the UZIN Clean Box. Hardened material can only be removed mechanically.

Application Chart / Curing Times:

Substrate	Curing Time per coat	Consumption
Prior to direct installation of wood flooring with UZIN PUR-/MSP-/STP-adhesives	min. 1 hour*	80 – 150 g/m ²
On mastic asphalt prior to direct bonding with UZIN PUR-/MSP-/STP-adhesives	12 hours*	80 – 150 g/m ²
As a moisture barrier up to 4 CM-%/95 % R.H.**	1 st coat: approx. 1 hour* 2 nd coat: approx. 1 hour*	250 – 300 g/m ²

* At 20 °C / 68 °F and 65 % relative humidity.

Important Notes:

- ▶ Shelf life minimum 9 months in original packaging when stored in relatively cool conditions. Carefully and tightly reseal opened containers and use the contents as quickly as possible. Allow containers to come to room temperature before use.
- ▶ Optimum work conditions are 15 – 25 °C, floor temperature above 15 °C / 59 °F and relative air humidity below 65 %. Low temperatures and low air humidity lengthen, whilst high temperatures and high air humidity shorten the drying time.
- ▶ With high absorbent substrates, as a barrier against odor of screeds/existing substrates or as a moisture barrier up to 4 CM-%/95 % R.H. a double application is necessary.
- ▶ The following direct bonding with UZIN reaction resin adhesives has to happen within 72 hours after applying the primer.
- ▶ In case of soil-contacting screed constructions, concrete bottoms or cement screeding are to be employed over 4 CM-%/95 % R.H. epoxy resin priming, sanded off, such as UZIN PE 460 or UZIN PE 480 NEW.
- ▶ The following standards, regulations and publications are applicable and especially recommended:
 - DIN 18 365 "Working with floor coverings"
 - DIN 18 356 "Working with wood flooring"
 - TKB publication "Assessment and preparation of substrates for floor covering and wood flooring work"
 - BEB publication "Assessment and preparation of subfloors"

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.

EMICODE EC 1 R PLUS – very low emission.

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.