Product Datasheet

1-Component PU Rapid Primer

UZIN PE 414 BITURBO

Ready mixed reactive resin primer for floor coverings and wood flooring

MAIN APPLICATION FIELD:

- blocking primer on unheated cementitious screeds and concrete up to 95 % R. H.** (4 CM-%) with 2 or 3 applied coats.
- blocking primer on heated constructions up to 85 % R. H.** (2.5 CM-%) with 2 or 3 applied coats.
- for subsequent installations with UZIN reactive resin adhesives

SUITABLE ON / FOR:

- dense or absorbent substrates, on well-bonded residues of adhesives or compounds (e.g. synthetic resin, neoprene, bitumen or dispersion adhesives residues)
- moisture sensitive substrates (e.g chip and OSB boards, gypsum and screed boards)
- new mastic asphalt screeds
- primed with UZIN PE 280 prior to installation with UZIN cement or calcium sulphate levelling compounds
- warm water underfloor heating systems
- exposure to castor wheels in accordance with DIN EN 12 529
- suitable for residential, commercial and industrial areas

PRODUCT BENEFITS / FEATURES:

UZIN PE 414 BiTurbo is a rapid drying, ready mixed polyurethane primer without plasticizing ingredients which offers a wide field of application. For interior use.

- easy handling
- easy application by roller or trowel
- excellent penetration
- fast drying
- moisture barrier up to 95 % R. H.** (4 CM-%)

TECHNICAL DATA:

Packaging	plastic canister
Pack size	12 kg, 6 kg
Shelf life	min. 12 months
Colour, wet	brown
Colour, dry	brown
Consumption	80 - 150 g/m² per coat*
Drying time	see application chart
Minimum application temperature	15 °C at ground level

*At 20 °C and 65% relative humidity.

**According to DIN EN 17668.

GEV-EMICODE EC 1 PLUS very low emission

EPD

LEED® CONTRIBUTING PRODUCT

UZIN | A brand of Uzin Utz Group
NZ | Uzin Utz South Pacific Ltd. | PO Box 426 | Whangaparaoa 0943 | New Zealand | Phone: +64 21 933780 | Fax: +64 94 281643 | E-Mail: sp@uzin-utz.com | nz.uzin.com

UZIN PE 414 BITURBO

EXTENDED APPLICATIONS:

- hardener primer for weak, porous or cracked substrates
- bonding primer prior to installation with levelling compounds

SUBSTRATE PREPARATION:

The substrate must be sound, load-bearing, dry, free from cracks and 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 containers to come to room temperature and shake well.
2. **For subsequent installation of wood flooring with UZIN reactive resin adhesives on dense or less absorbent substrates:** Apply UZIN PE 414 BiTurbo 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; otherwise grind surface and vacuum if necessary.
3. **For solidification of substrates:** Apply UZIN PE 414 BiTurbo in 1 or 2 thin, non-foaming coats with the UZIN Nylon Roller.
4. **For blocking residual moisture:** Apply UZIN PE 414 BiTurbo in 2 coats with the UZIN Nylon Roller. The second coat can be applied after the first coat is set to foot traffic (after approx. 60 minutes) and needs to dry for min. 1 hour.
5. **For subsequent installation of levelling compounds and flooring adhesives:** Apply UZIN PE 280 on the dry UZIN PE 414 BiTurbo. If a DPM is necessary, applying 2 coats of UZIN PE 414 BiTurbo is necessary.
6. Clean tools with wipes of UZIN Clean Box immediately. Dry material can only be removed mechanically.

APPLICATION CHART:

Foundation / Application	Consumption	Drying Time
Prior to direct installations with UZIN PUR / STP / MSP adhesives	80 - 150 g/m²	min. 1 hour*
On mastic asphalt, prior to direct installation of wood flooring with UZIN PUR / STP / MSP adhesives	80 - 150 g/m²	12 hours*
Moisture barrier up to 4 CM-% / 95% RH	250 - 300 g/m²	1st and 2nd coat: approx. 1 hour*

*At 20 °C and 65% relative humidity.

IMPORTANT NOTES:

- A shelf life of 12 months when stored in moderately cool conditions, in the original packaging. Carefully and tightly reseal opened containers and use the contents quickly. Allow containers to come to room temperature before use.
- Best applied between 18 - 25 °C, with the floor temperature above 15 °C and relative air humidity below 65%. High temperatures and high air humidity shorten the drying time. Whilst low temperatures and low air humidity lengthen the drying time.
- Two coats are required on highly absorbent or old substrates and when used as a barrier against screed odours. Two coats are also required when using as a moisture barrier up to 95 % R. H.** (4 CM-%).
- When used over underfloor heating ensure it has been commissioned and fully tested in accordance with the manufactures guidelines.
- If installing wooden floors with UZIN reactive resin adhesives directly to the primer this must happen within 72 hours after applying the primer.
- For screeds constructions in contact with the ground or cementitious screeds with a moisture level higher than 95 % R. H.** (4 CM-%), epoxy resins such as UZIN PE 460 or UZIN PE 480, gritted, must be used.
- 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
- European Model EPD
- Suitable for sustainable building certifications according to: DGNB, QNG, BNB, BREEAM, LEED

COMPOSITION:

Moisture-curing, modified polyurethane prepolymers.

The above information is based on our experience and careful investigations. The variety of associated materials and different constructions and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the floor covering manufacturer. The publication of this Product Data Sheet invalidates all previous product information. The respective updated version of this datasheet can be found on our website under www.uzin.com | 08/2026

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. Odorless after complete drying.

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.

The above information is based on our experience and careful investigations. The variety of associated materials and different constructions and working conditions cannot be individually checked or influenced by us. The quality of your work depends, therefore, on your own professional judgement and product usage. If in doubt, conduct a small test or obtain technical advice. Observe the installation recommendations of the floor covering manufacturer. The publication of this Product Data Sheet invalidates all previous product information. The respective updated version of this datasheet can be found on our website under www.uzin.com | 08/2026