Product Datasheet

Premium Plus - Universal Flooring Adhesive

UZIN KE 2000 S

Universal adhesive for all types of common floor coverings

DESCRIPTION:

UZIN KE 2000 S is a universal adhesive designed for the installation of various floor coverings on absorbent and non-absorbent substrates. UZIN KE 2000 S has high shear strength, excellent resistance to plasticizers, and is quick-drying allowing for fast installations.

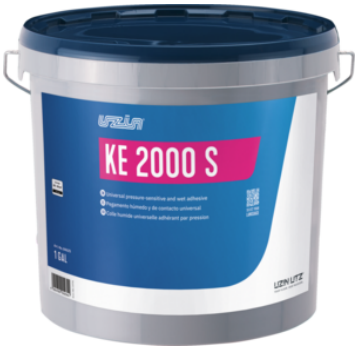
SUITABLE FOR:

- Interior use only
- Concrete substrates up to 85% RH
- Absorbent and non-absorbent substrates
- Vinyl flooring, sheet or tile
- Rubber sheet, max. 5/32" (4 mm) thick
- Linoleum up to 1/8" (3 mm)
- Carpet tile, Carpet, LVT, VCT, PVC-free vinyl sheet,
- Linoleum up to 1/8" (3 mm)
- Residential and commercial applications
- Use with radiant floor heating systems

UZIN KE 2000 S – SUBSTRATE RH % & pH LEVEL LIMITATIONS		
Substrate *	RH % (ASTM F2170)	pH (ASTM F710)
Clean concrete above grade. On or below grade with intact vapor retarder present beneath concrete (ASTM E1745)	< 85 % (maximum)	5 – 9
UZIN PE 414 Moisture Vapor Retarder** A two coat application required over prepared concrete. Above grade. On or below grade with intact vapor retarder present beneath concrete (ASTM E1745)	< 95 % (maximum)	5 – 14
UZIN PE 460 Moisture Vapor Retarder** (applied over porous concrete – CSP #3 prepared)	100 %	5 – 14
IMPORTANT: Adhesive products are not designed to be used as moisture barriers. Moisture mitigation must be addressed prior to adhesive application. If a moisture vapor retarder is required select a suitable UZIN product. For application instructions regarding all UZIN materials listed, please refer to the product information available for review online at us.uzin.com. CSP (concrete surface profile). Per ICRI (International Concrete Repair Institute).		

* See 'Substrate Preparation'

** It is recommended that UZIN PE 414 and UZIN PE 460 be primed and patched or leveled (if necessary) prior to adhesive application.
Select an appropriate UZIN primer, patch, or leveling compound based on the flooring manufacturer's requirements and substrate condition.



FEATURES AND BENEFITS:

- Universal • Install most floor coverings
- Plasticizer resistant • Minimizes the risk of shrinkage
- High coverage • Cost saving
- High solids content • Excellent bond strength
- Low viscosity • Easy trowel application

TECHNICAL DATA:

Packaging	0.25 gal. / 1.25 kg / 0.97 l plastic pail 1 gal. / 4.7 kg / 3.9 l plastic pail 3 gal. / 14 kg / 11.6 l plastic pail
Storage	min. 12 months when stored in original packaging at 73 °F (23 °C)
Color	white
Coverage	18–52 sq. ft. / pail (0.25 gal.)* 1.5–4.5 m² / pail (0.25 gal.) 75–210 sq. ft. / pail (1 gal.)* 7–9 m² / pail (1 gal.) 225–630 sq. ft. / pail (3 gal.)* 20–58 m² / pail (3 gal.)
VOC	< 20 g/L
Flash time	see coverage chart
Working time	15-120 minutes*
Ready for foot traffic	after 24–72 hours*
Ready for covering	see coverage chart for flash times
Minimum application temperature	60 °F (15 °C) at floor level
Joint sealing	after 24 hours*
Final strength	after approx. 5 days*
Frost resistance for 5 cycles	14 °F (- 10 °C)

*At 70 °F (21 °C) and 65 % relative humidity. Coverage is approximate and may vary depending on substrate porosity and angle that trowel is held. Flash time, is the waiting time required before installing flooring. Working time, is the window of time for the adhesive to accept flooring. Note: Flash time and working time may vary based on temperature, humidity, substrate porosity, trowel size and jobsite conditions.

LEED® contributing product

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UZIN KE 2000 S

EXTENDED APPLICATIONS:

- floor coverings free of PVC and plasticizers (e.g. Amtico Cirro, Haro Disano, Tarkett IQ One)
- Enomer® flooring sheets
- PUR flooring (e.g. wineo PURLINE)
- wall coverings (e.g. PVC coverings in bathrooms or gyms)
- corkment as well as all UZIN installation and insulation underlays

PRODUCT PROPERTIES:

UZIN KE 2000 S is a universal adhesive designed for the installation of various floor coverings on absorbent and nonabsorbent substrates. UZIN KE 2000 S has high shear strength, excellent resistance to plasticizers, and is quick-drying allowing for fast installations. This installer friendly adhesive is low odor and easy to trowel, it is ideal for use in occupied buildings such as healthcare and educational facilities. UZIN KE 2000 S can be used in commercial and residential applications.

COVERAGE *

Ensure proper adhesive coverage and transfer. Most resilient flooring types require > 80 % transfer. Trowel sizes listed, are suggested to maximize coverage of adhesive.

Vinyl sheet goods – Homogeneous vinyl backed	LVT max. 3/32" (2.5 mm)	Rubber sheet or LVT max. 5/32" (4 mm)	Vinyl composition tile (VCT)	Linoleum sheet – jute backed max. 1/8" (3 mm)
Coverage* 185 – 210 sq. ft./gal.	Coverage* 185 – 210 sq. ft./gal.	Coverage* 130 – 155 sq. ft./gal.	Coverage* 185 – 210 sq. ft./gal.	Coverage* 110 – 135 sq. ft./gal.
Flash Time 10 – 45 min*	Flash Time 10 – 45 min*	Flash Time 15 – 45 min*	Flash Time 10 – 45 min*	Flash Time 10 – 45 min*
U	U	FLAT V	U	FLAT V
1/32" x 1/16" x 1/32"	1/32" x 1/16" x 1/32"	1/16" x 1/16" x 1/16"	1/32" x 1/16" x 1/32"	3/32" x 3/32" x 3/32"

Broadloom double stick	Carpet pad double stick	Cushion backed carpet (vinyl & urethane)	Carpet tile (see Application)	Woven & Hot melt backed carpet. Non woven broadloom (with secondary backing, needle punch)
Coverage* 75 – 90 sq. ft./gal.	Coverage* 185 – 210 sq. ft./gal.	Coverage* 130 – 155 sq. ft./gal.	Coverage* 185 – 210 sq. ft./gal.	Coverage* 110 – 135 sq. ft./gal.
Flash Time 5 – 45 min*	Flash Time 10 – 20 min*	Flash Time 5 – 45 min*	Flash Time 5 – 45 min*	Flash Time 5 – 45 min*
U	U	FLAT V	U	FLAT V
1/8" x 1/8" x 1/8"	1/32" x 1/16" x 5/64"	1/16" x 1/16" x 1/16"	1/32" x 1/16" x 1/32"	3/32" x 3/32" x 3/32"

* At 70 °F (21 °C) and 65 % relative humidity, on substrates smoothed with UZIN NC 170 and tempered adhesive containers. Coverage is approximate and could vary depending on substrate porosity and the angle at which trowel is held.

SUBSTRATE PREPARATION:

The subfloor must be structurally sound, solid, dry, free from active cracks, clean, and free of all contaminants, including but not limited to dust, grease, oil, paint, wax, curing, and sealing compounds, or cleaning solution residue that would impair adhesion. If necessary, mechanically prepare and clean the surface by grinding, shot blasting, or sanding, and thoroughly vacuum off all loose material and dust following OSHA recommended guidelines. Do not use sweeping compounds. Any weakly bonded or soft surface material, such as loose patching compounds, leveling compounds, floor coverings, or coatings, must be removed. Do not apply this product over any acid-etched or chemically abated adhesive surfaces. Wood substrates must provide a rigid base and be securely fastened without excessive vertical movement. The surface of the wood must be clean and free of oils, grease, wax, dirt, varnish, shellac, and any contaminates that would impair adhesion. If necessary, sand down to bare wood. Do not apply UZIN products directly to fire-retardant or pressure-treated wood surfaces. Please refer to the UZIN Substrate Preparation Guide for additional information.

CAUTION: Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Do not sand, grind, or disturb any surface or adhesive residue that may contain asbestos or lead, as harmful dust may result. Refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings" for instructions.

Substrate Moisture Testing and Assessment

Evaluate concrete substrates following ASTM F710 guidelines. Select a suitable UZIN moisture vapor retarder if required. Always reference the limitations of the UZIN products and floor covering. If these limitations are in conflict, the most stringent requirements shall apply.

Apply an adequate number of test areas, including the floor covering, to evaluate the bond and suitability of the selected UZIN products for their intended use.

APPLICATION:

1. Optimum product application conditions are 64–77 °F (18–25 °C) and relative humidity below 65%.
2. Before use, allow product to acclimate to room temperature.
3. Apply the adhesive to the substrate with a suitable notched trowel and allow for flash time. Apply only as much adhesive as can be covered within the working time. Lay covering into adhesive and roll the entire surface in length and width directions using a 100 lb. roller. Ensure > 80% transfer of adhesive to the floor covering.
4. Coverage rate up to approx. 75–210 sq. ft. per gal.
5. Clean tools immediately after use.
6. Product is dry to accept foot traffic after approx. 24–72 hrs.

7. Product has a minimum 12-month storage life in original packaging when stored indoors in dry conditions.

Note: Carpet tile installation with UZIN KE 2000 S will result in a semi-permanent bond. Most PVC and polyolefin-backed carpet tile can be removed with some effort. Replacement of a removed carpet tile will require reapplyingUZIN KE 2000 S.

IMPORTANT NOTES:

- While this product is freeze-thaw stable, it is necessary to protect it from freezing. This product should be stored at temperatures between 50–90 °F (15–32 °C). Tightly re-seal opened containers and use the contents as quickly as possible.
- Do not apply over any adhesive residues.
- UZIN recommends installing an adequate number of adhesive bond test areas, including the floor covering, to determine the bond suitability.
- Highly porous substrates (gypsum or lightweight concrete) may be primed using diluted UZIN PE 260 or PE 360 PLUS in advance of adhesive application.
- Additional wait time may be required when adhesive is applied over nonporous substrates.
- The substrate, adhesive, and flooring must be acclimated in an enclosed building with the HVAC operational between 65–95 °F (18–35 °C), and between 30–65 % relative humidity, for at least 72 hours before, during, and after the installation.
- Dew point (not within 5 °F and temperature on the rise) must be observed.
- Floor coverings must be dimensionally stable and sufficiently acclimatized per the flooring manufacturer's recommendations.
- When installing over radiant heated subfloors, turn the heat off (or maximum surface temperature of 60 °F/15 °C) for 24 hours before, during, and after installation. Failure to turn the heat off may result in the shortened working time of the adhesive. When turning radiant heat back on, raise it incrementally, not to exceed a change of more than 5 degrees per hour to a maximum of 85 °F.
- Do not install when relative humidity of concrete slabs exceeds 85 % RH (ASTM F2170).
- Do not install when the moisture vapor emission rate (MVER) exceeds 6 lbs. (ASTM F1869).
- Substrate pH must be between 5–9 (ASTM F710).
- Use a damp cloth and water to remove adhesive while wet.
- Concrete must be placed in strict accordance with applicable standards and specifications. An intact moisture vapor retarder must be present below the concrete (ASTM E1745), fully cured at least 28 days, and without hydrostatic pressure.
- The following standards and product regulations apply:
  - ASTM E1745 "Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs"
  - ASTM F1482 "Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring"
  - ASTM F710 "Standard Practice for Preparing Concrete Floors To Receive Resilient Flooring"
  - ASTM F1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride"
  - ASTM F2170 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes"
  - California Department of Public Health CDPH/EHLB/ Standard Method Version 1.2, 2017 (Emission testing method for CA Specification 01350)

COMPOSITION:

Polymer dispersion, modified resins, preservation agents, mineral aggregates, additives and water

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Precautions: Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at www.uzin.us.
WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

DISPOSAL:

Disposal should be in accordance with local, state and federal regulations. Where possible, collect product residues and re-use. Do not allow product to get into drains, watercourses or unlined ground surface. Empty packaging may be recyclable.

INDOOR AIR QUALITY INFORMATION

Certification: SCS Indoor Advantage™ Gold

VOC content: < 20 g/L, compliant with SCAQMD 1168

VOC emission: Conforms to the CDPH Standard Method (CA 01350) V1.2-2017; 0.5 mg/m3 or less TVOC emission.