



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 porous and nonporous 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. For interior use only.

### Suitable for:

- ▶ Vinyl flooring, sheet or tile
- ▶ Rubber sheet or tile. max. 5/32" (4 mm) thick
- ▶ Carpet tile (see Important Notes)
- ▶ Carpet coverings with common backings
- ▶ Linoleum up to 1/8" (3 mm)
- ▶ Vinyl and cushion backed sheet or tiles
- ▶ PVC-free vinyl sheet, carpet tile, LVT
- ▶ Luxury Vinyl Tile (LVT)
- ▶ Vinyl Composition Tile (VCT)
- ▶ Interior residential i.e. apartments, condominiums, houses
- ▶ Interior commercial i.e. offices, hospitals, schools, universities, libraries and government buildings

### Suitable on:

- ▶ Porous and nonporous substrates
- ▶ Cement-based self-leveling compounds and patch
- ▶ Properly prepared and primed gypsum substrates that meet the ASTM F2419 requirements for compressive strength<sup>[1]</sup>
- ▶ Resilient insulating and sound control underlays
- ▶ Radiant-heat systems (hydronic or electric)

<sup>[1]</sup> Dependent on floor covering manufacturer's requirements.

UZIN KE 2000 S – SUBSTRATE RH % & pH LEVEL LIMITATIONS		
Substrate <sup>[2]</sup>	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 <sup>[3]</sup> 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 <sup>[3]</sup> (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 [www.uzin.us](http://www.uzin.us).  
CSP (concrete surface profile). Per ICRI (International Concrete Repair Institute).

<sup>[2]</sup> See 'Substrate Preparation'

<sup>[3]</sup> 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.



UZIN ÖKOLINE



[www.blauer-engel.de/uz12a](http://www.blauer-engel.de/uz12a)

### Features

- Universal
- Moisture Resistant
- Recommended with UZIN Moisture Mitigation Systems
- Plasticizer resistant
- High coverage
- High solids content
- Meets strict EMICODE EC 1 PLUS criteria
- Compliant with California Sect. 01350 Standard
- Low VOC, < 20 g/l, meets SCAQMD rule 1168

### Benefits

- Install most floor coverings
- For use up to 85 % RH
- Increased application range up to 100 % RH and pH 14<sup>[4]</sup>
- Minimizes the risk of shrinkage
- Cost saving
- Excellent bond strength
- Healthy indoor air quality
- LEED v4 contributing product
- Protects the environment, LEED v4 contributing product (low emitting materials)

<sup>[4]</sup> See 'Substrate RH % & pH Level Limitations Chart'.

### Technical Data:

Packaging:	1 gal./4.7 kg/3.9 l plastic pail 3 gal./14 kg/11.6 l plastic pail
Storage:	minimum 12 months when stored in original packaging at 73 °F (23 °C)
Color:	white
Coverage:	approx. 75 – 210 sq. ft./pail (1 gal.) 7 – 9 m <sup>2</sup> /pail (1 gal.) approx. 225 – 630 sq. ft./pail (3 gal.) 20 – 58 m <sup>2</sup> /pail (3 gal.)
Minimum working temperature:	60 °F (15 °C) at floor level
Ideal working temperature:	64 – 77 °F (18 – 25 °C)
Flash time:	see reverse (Coverage:)
Working time:	approx. 15 minutes – 2 hours <sup>[5]</sup>
Set to traffic:	after 24 – 72 hours <sup>[5]</sup>
Final strength:	after 5 days <sup>[5]</sup>
Welding / sealing joints:	after 24 hours <sup>[5]</sup>
Flash point (ASTM D56):	> 300 °F (> 150 °C)
Percent Solids:	> 70 %
VOCs (Rule #1168 of California's SCAQMD):	< 20 g/l

<sup>[5]</sup> At 70 °F (21 °C) and 65 % relative humidity.

Coverage is approximate and could vary depending on substrate porosity and the angle at which 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.

## Substrate Preparation:

The subfloor must be structurally sound, solid, dry, free from active cracks, clean and free of all contaminants such as grease, oil, paint, wax, curing and sealing compounds that would impair adhesion. Test the substrate in accordance with applicable standards relative to moisture content. Any weakly bonded or soft surface material such as loose patching compounds, leveling compounds, floor coverings or coatings must be removed by shot blasting, abrading, grinding or wet scraping. Thoroughly vacuum off all loose material or dust. **CAUTION:** Do not sand or grind adhesive residue, as harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other serious bodily harm. Refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Coverings" for instructions. Select a suitable primer and leveling compound from the UZIN Product Guide according to surface type and condition or seek technical assistance. It is always recommended to test for moisture content of the existing substrate to ensure that it meets the floor covering manufacturer's requirements. Concrete floors must be fully cured, free from dust, moisture, excessive alkalinity and curing agents. Do not install when the moisture vapor emission rate (MVER) exceeds 6 lbs. per 1,000 sq. ft. (2.72 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869). Do not install when relative humidity of concrete slabs exceeds 85% (ASTM F2170). Refer to the Product Data Sheets for other products used.






## Application:






- All flooring materials and area of work should be maintained at a minimum temperature of 65°F, for 48 hours prior to, during, and after installation. Apply the adhesive on the subfloor (porous or nonporous) with an UZIN recommended adhesive notched trowel\*. Because of using the wet-set method of installation, test the adhesive to see if it is moist to the touch before installing the floor covering. It is the responsibility of the installer to apply the correct amount of adhesive for the job condition.
- When installing sheet flooring, lay covering into adhesive and immediately roll the entire floor with a 100 lb. roller. Roll the floor covering twice, once in each direction. Ensure that severe roll end curl and lifting edges are dealt with during bonding. When installing tile flooring, lay covering into adhesive and roll within 15 minutes of installation (using a 100 lb. roller). Roll the floor covering twice, once in each direction. Ensure that lifting edges are dealt with during bonding. Work off the flooring or use knee boards to minimize floor indentations and movement. In either installation method ensure that air is not trapped beneath the covering. Periodically check back of floor covering to ensure >80% adhesive transfer.
- Remove uncured adhesive residues with UZIN Clean Box wipes or warm water and a damp cloth.

\*Tip: Immediately after trowel applying the adhesive, roll it with a short nap roller (dampened with adhesive) to flatten trowel ridges. This procedure will ensure that the trowel notch pattern does not telegraph through to the finished floor.

## 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 / tile & 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 1/32" x 1/16" x 1/32"	 U 1/32" x 1/16" x 1/32"	 FLAT V 1/16" x 1/16" x 1/16"	 U 1/32" x 1/16" x 1/32"	 FLAT V 3/32" x 3/32" x 3/32"

Broadloom double stick	Carpet pad double stick	Cushion backed carpet (vinyl & urethane)	Carpet tile (see Important Notes)	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 1/8" x 1/8" x 1/8"	 U 1/32" x 1/16" x 5/64"	 FLAT V 1/16" x 1/16" x 1/16"	 U 1/32" x 1/16" x 1/32"	 FLAT V 3/32" x 3/32" x 3/32"

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

## Important Notes:

- Storage: minimum 12 months, when stored in original packaging at 73°F (23°C). Protect from freezing. Tightly re-seal opened containers and use the contents as quickly as possible. Allow adhesive to reach room temperature before use.
- UZIN recommends installing an adequate number of properly located test areas, including the selected floor coverings, to determine the suitability and aesthetic value of the products for their intended use. Always review the floor covering manufacturer recommendations, such as maximum allowable substrate moisture content and intended use of the flooring product.
- Optimum working conditions are 70°F (20 – 25°C) room temperature, minimum floor temperature of 60°F (15°C) and relative humidity below 65%. Low temperatures and high humidity will delay, while high temperatures and low humidity will shorten the working time.
- Frost resistance (5 cycles) 14°F (-10°C).
- Do not install when the moisture vapor emission rate (MVER) exceeds 6 lbs. per 1,000 sq. ft. (2.72 kg per 92.9 m<sup>2</sup>) per 24 hours, when using the anhydrous calcium chloride test (ASTM F1869). Do not install when relative humidity of concrete slabs exceeds 85% (ASTM F2170).
- Do not apply over any adhesive residues including cutback adhesive.
- The coverings must be sufficiently acclimatized per the flooring manufacturers recommendations.
- Carpet tile: Allow a flash time of approximately 5 to 45 minutes (less or more dependent on ambient temperature and RH conditions) and install the carpet tile within a working time that provides 80% transfer of the UZIN KE 2000 S to the floor covering; roll the floor covering after placement within 45 minutes. 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 reapplying UZIN KE 2000 S.
- Ensure that severe roll end curl and lifting edges are dealt with during bonding.
- The following standards, regulations and publications are applicable and especially recommended:
  - ASTM E1745-17 "Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs"
  - ASTM F1482-15 "Standard Practice for Installation and Preparation of Panel Type Underlayments to Receive Resilient Flooring"
  - ASTM F710-17 "Standard Practice for Preparing Concrete Floors To Receive Resilient Flooring"
  - ASTM F1869-16A "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride"
  - ASTM F2170-17 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes"
  - CRI Green Label Plus #GLP12617. Refer to CRI website at [www.carpet-rug.org](http://www.carpet-rug.org) for additional information.
  - RFCI IP #1, Recommended Installation Practice for Homogeneous Sheet Flooring
  - RFCI IP #2, Recommended Installation Practice for Vinyl Composition Tile (VCT)
  - CRI #104, Standard for Installation Specification of Commercial Carpet

## 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](http://www.uzin.us).

## 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, waterways or landfill. Empty containers are recyclable.

The above information is based on our experience and testing. Uzin Utz North America, Inc. is not responsible for the variety of associated materials and variable construction and working conditions that occur on jobsites. The quality of your work depends on your own professional judgment and product usage. If in doubt of any application recommendation or instruction, 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.