

## Premium Pro - Fiber-Reinforced Adhesive

# UZIN KE 66

Wet-set, high-shear-resistant vinyl and rubber flooring adhesive

### DESCRIPTION:

UZIN KE 66 is a fiber-reinforced, wet-set adhesive, designed for the installation of various floor coverings on absorbent substrates. This solvent-free, hard setting product features low VOC, high shear strength and has excellent resistance to indentations and shrinkage. UZIN KE 66 is ideal for use in occupied buildings such as healthcare and educational facilities. This installer-friendly adhesive is low odor and easy to trowel, it has a short flash time and is fast drying for quick installations.

### SUITABLE FOR:

- ▶ Interior use only
- ▶ Concrete substrates up to 80% RH
- ▶ Absorbent substrates
- ▶ Vinyl flooring, sheet or tile
- ▶ Rubber sheet or tile flooring with smooth or hammered surface up to 5/32" (4 mm)
- ▶ Vinyl and cushion backed sheet or tiles
- ▶ Luxury Vinyl Tile (LVT)
- ▶ Residential and commercial applications
- ▶ Use with radiant floor heating systems



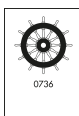
### FEATURES AND BENEFITS:

- ▶ Fiber-reinforced • High shear resistance
- ▶ Strongly CO2-reduced product • Over 90% reduction based on internally calculated value (see ECO2 CHOICE)
- ▶ Fast drying • Labor / cost savings
- ▶ Hard set • High indentation resistance to rolling loads and furniture (e.g., hospital beds)
- ▶ Stabilizing bond • Minimizes the risk of shrinkage and gapping in LVT

### TECHNICAL DATA:

|                                 |                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------|
| Packaging                       | 3 gal. / 14 kg / 11.35 l pail                                                                              |
| Storage                         | min. 12 months when stored at 73 °F (23 °C)                                                                |
| Color                           | beige                                                                                                      |
| Coverage                        | 390–630 sq. ft. / pail (3 gal.)*<br>36–58 m² / pail (3 gal.)<br>130–210 sq. ft. / gal.*<br>12–19 m² / gal. |
| VOC                             | < 5 g/L                                                                                                    |
| Flash time                      | tile goods: 5-15 minutes*<br>sheet goods: 5-15 minutes*                                                    |
| Working time                    | approx. 20 Minutes**                                                                                       |
| Ready for foot traffic          | after 24-48 hours*                                                                                         |
| Ready for covering              | see flash time                                                                                             |
| Minimum application temperature | 60 °F (15 °C) at floor level                                                                               |
| Joint sealing                   | after 24 hours**                                                                                           |
| Final strength                  | after 72 hours*                                                                                            |
| 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.



## PRODUCT PROPERTIES:

UZIN KE 66 is a fiber-reinforced, wet-set adhesive with high shear resistance that minimizes the risk of open joints in vinyl tile and plank floor coverings.

## 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 –<br>Homogeneous vinyl<br>backed                                                         | Luxury vinyl tile and vinyl<br>plank (LVT, LVP)                                                            | Rubber sheet goods and<br>rubber tile – max. 5/32"<br>(4 mm) thick                                         |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Coverage*<br>185–210 sq. ft. / gal.                                                                        | Coverage*<br>185–210 sq. ft. / gal.                                                                        | Coverage*<br>130–155 sq. ft. / gal.                                                                        |
| Flash Time<br>5–15 min*                                                                                    | Flash Time<br>5–15 min*                                                                                    | Flash Time<br>5–15 min*                                                                                    |
| <br>1/32" x 1/16" x 1/32" | <br>1/32" x 1/16" x 1/32" | <br>1/16" x 1/16" x 1/16" |

\* 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 and the texture of the substrate.

## 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 contaminants 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:

- Optimum product application conditions are 64–77 °F (18–25 °C) and relative humidity below 65%.
- Before use, allow product to acclimate to room temperature.
- Over non-porous coatings (PE 460, PE 414 TURBO), prime substrates and apply a minimum 1/8" (3 mm) thickness of UZIN leveling compound before the use of UZIN KE 66.
- Apply the adhesive to the substrate with a suitable notched trowel and observe flash time. Apply only as much adhesive as can be covered within the 20 minute working time. Roll the entire surface in length and width directions using a 100 lb. roller. Ensure > 80% transfer of adhesive to the floor covering.
- Coverage rate up to approx. 130-210 sq. ft. per gal.
- Clean tools immediately after use.
- Product is dry to accept foot traffic after approx. 24–48 hrs.
- Product has a minimum 12-month storage life in original packaging when stored indoors in dry conditions.

## IMPORTANT NOTES:

- ▶ Tightly reseal opened packaging and use the contents as quickly as possible.
- ▶ High temperatures and low humidity will accelerate drying.
- ▶ Low temperature and high humidity will delay drying.
- ▶ Do not apply to wet surfaces. Observe surface temperature at a minimum 5°F (3°C) above the dew point with temperature on the rise during application.
- ▶ 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) can be primed using diluted UZIN PE 260 or PE 360 PLUS in advance of adhesive application.
- ▶ 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.
- ▶ 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 80 % RH (ASTM F2170).
- ▶ Do not install when the moisture vapor emission rate (MVER) exceeds 5 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 E1745-17 "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 F2170-17 "Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes"
  - ASTM F1869-16A "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride"
  - California Department of Public Health CDPH/EHLB/ Standard Method Version 1.2, 2017 (Emission testing method for CA Specification 01350)

## INDOOR AIR QUALITY INFORMATION

Certification: SCS Indoor Advantage™ Gold

VOC content: < 5 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.

## 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](http://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](http://www.P65Warnings.ca.gov).

## DISPOSAL:

Dispose of the material in accordance with applicable laws and regulations. Where possible, collect product residues and re-use. Avoid product to get in contact with soil, waterways, drains, or sewers. Empty containers or liners may retain product residues.