

### MATERIALS

Harbinger "The Quiet Zone" (TQZ) is completely recyclable. While it is FloorScore certified, independent emission tests prove that we exceed, by five times, the requirement needed to pass FloorScore, LEED and the CRI Green label certification. Made from 100% virgin PVC, Harbinger guarantees all products are Phthalate free, Phenol Free and do not contain heavy metals to assure the best indoor air quality at home and in the workplace. Harbinger LVT is suitable for all interior floor surfaces, above, on or below grade, and over concrete, wood or properly prepared existing substrates. Harbinger contributes to earning LEED® 4.1 credits, and is manufactured under ISO 9004:2008 Quality Management System and ISO 14001 Environmental Management System. Visit [Origin](#) or [mM](#) to read further on Harbinger's commitment to product transparency.



### ADHESIVE

#### UZIN KE 2000S Premium Universal Flooring Adhesive

High tack, high shear adhesive for most porous and non-porous conditions.  
1/32" x 1/16" x 1/32" U notch trowel  
UZIN KE2000S is the only adhesive warranted for TQZ installation.

Ensure proper adhesive coverage - LVT resilient flooring require over 90% transfer.

Minimum working temperature: 60 °F (10 °C) on floor

Ideal working temperature: 64°F to 77 °F (18°C to 25 °C) on floor

Flash Time: 10 – 45 min\*

Working time: approx. 15 minutes – 90 minutes\*

Set to traffic: after 24 – 72 hours\*

Final strength: after 5 days\*

\*At 70 °F (21 °C) and 65 % relative humidity, using 1 / 32" x 1 / 16" x 1 / 32" U notch trowel

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.

### Clean-Up

Remove uncured adhesive residues with warm water and a damp cloth.

Promptly remove adhesive smudges with a clean cloth dampened with water while adhesive is still fresh and gentle mineral spirits.

### STORAGE AND ACCLIMATIZING

#### Conditions

Harbinger LVT should be present at job site to allow an appropriate period for product to acclimatize. Remove material from packaging, spread out not higher than 1 box high and allow to condition in room where installation is to take place at a constant temperature of 65° F for a period of 48 hours prior to installation. This temperature should be maintained during installation and for a 24-hour period after installation.

#### Product Inspection

Prior to and during installation, carefully inspect material under sufficient lighting to detect any visible defects. Damaged or flawed material should never be installed under any circumstances. If flaws are detected, immediately contact Bay Resource Group. Installation of material implies acceptance. No claims will be considered for material installed with visible defects.

## HARBINGER TQZ INSTALLATION GUIDELINE

### SUBFLOORS

The subfloor must be structurally sound, smooth, 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. 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. Test the substrate in accordance with applicable standards relative to moisture content to ensure that it meets the floor covering manufacturer's requirements.

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 according to surface type and condition or seek technical assistance.

### Concrete

1. Concrete floors must be fully cured, free from dust, moisture, excessive alkalinity and curing agents and sealer. The substrate shall be cured for a minimum of 28 days and tested for moisture emission using the IRH moisture test method.
2. The surface shall be sound, smooth, solid, stable, level, plumb to a tolerance in plane of ¼" in 10 feet (6 mm in 3 m) for floors.
3. The installer shall be responsible for confirming that the Internal Relative Humidity test results meet the recommended requirements.
4. All new concrete surfaces should be steel trowel finished. A moisture barrier with a permeability of less than 0.2 metric perms as measured according to the ASTM-96 standard must be present under concrete slabs that are on or below grade. This barrier must be resistant to deterioration as well as to puncture during construction and must remain intact and continuous.
5. Any repair to the concrete substrate shall be made using the proper surface preparation product. Where self-smoothing surface preparation material is required, the concrete shall be bead blasted or scarified. Where a fast setting screed mortar or fast setting polymer-modified premixed mortar is required, the concrete shall be scarified.
6. Neutralize any traces of strong acid or alkali prior to application of the surface preparation product or the adhesive.
7. Do not install when relative humidity of concrete slabs exceeds 85 % (ASTM F2170).

### Radiant Heat Systems (Hydronic or Electric)

1. Radiant heat systems require the use of Uzin KE 66 adhesive.
2. Do not install over concrete floors that are excessively cold or radiant-heated with floor temperatures that exceed 80.6°F (27°C). The radiant heating system must be in operation for three weeks prior to installation of the flooring. 48 hours prior to and during installation, the system must be kept at 65°F (18°C). Once the installation is completed, the heat must be gradually increased by a maximum of 5°F (3°C) per day until the desired setting is reached.
3. Cable type radiant heating must be covered with a minimum ¼" screed above the heat source. You should not be able to see the heat cable outlines. Topping must be primed prior to applying adhesive or consult the leveling material manufacturers recommendations regarding priming and moisture content.

### Wood Underlayment

1. Particleboard, OSB, strand board and flake board are NOT RFCI-recommended underlayment and therefore not to be used as a substrate for Harbinger LVT flooring.
2. Plywood substrate and underlayment shall be group 1, exterior grade plywood, CC plugged or better conforming to APA classification and U.S. Product Standard PS 1-95 or a select or (SELTF) COFI classified.
3. All wood underlayment shall be new and acclimated for at least 24 hours to the job site condition prior to installation.
4. When required, the wood underlayment shall be filled and patched to correct seams, cracks, indentations and other subfloor irregularities using the proper products. Calcium sulfate/ plaster/gypsum-based compounds are NOT recommended.
5. All substrates must be smooth, hard and porous.

### Old Substrates

1. Existing cement terrazzo, ceramic tile, vinyl composition tile, non-cushioned mineral fibrous felt-back sheet vinyl shall be sound, solid, well adhered, flawless, stripped or sanded clean and free of dust, wax, grease, soap residue or any deleterious substance that may reduce or prevent adhesion.
2. Harbinger Luxury Vinyl Tile may be installed over a single layer of non-cushioned resilient flooring provided the following conditions have been met:
  - The existing flooring must be fully adhered and well-bonded.
  - The sub floor or underlayment that is under the existing resilient floor must meet the requirements of Harbinger Luxury Vinyl Tile.
  - Any cuts, gouges, dents or other irregularities in the existing floor and any existing embossing or texture must be levelled to prevent telegraphing. Embossed vinyl flooring shall be properly levelled to ensure adhesion. Do not install over cushion-backed, heavily embossed, or multiple layers of flooring. Installations over existing resilient flooring will be more susceptible to indentation, and there is the possibility that the existing flooring will telegraph through.
  - The responsibility of determining if the existing floor is a suitable subfloor rests solely with the installer and flooring contractor. If there is any doubt, the existing floor should be removed.
  - Any waxes or finishes must be completely removed and rinsed with clean water.
  - If existing floor has been installed over concrete, on a below grade, an IRH test must be performed for every 1000 square feet (or minimum of 3 tests). Test results must meet the requirements of both the existing floor and the Harbinger floor. Moisture tests should be conducted over an area where the existing floor and adhesive has been completely removed.

## HARBINGER TQZ INSTALLATION GUIDELINE

### APPLICATION

All flooring materials and area of work should be maintained at a minimum temperature of 65°F (15°C) for 48 hours prior to, during, and after installation. Apply the adhesive with recommended adhesive notched trowel.

If using the wet-set method of installation, test the adhesive to ensure it is moist to touch before installing the floor covering. It is the responsibility of the installer to apply the correct amount of adhesive for the job condition. Work in small enough area to ensure that Harbinger LVT are laid into adhesive immediately before it skins over or dries completely. Lay the plank at proper position in the adhesive without sliding and pressing firmly down, paying special attention to the tile edges and corners and that the ends of the planks are staggered at minimum of 12" for best visual appearance. Harbinger LVT installed next to each other shall be in consecutive lot numbers. Rub down surface completely, periodically check by lifting a tile to ensure at least 90% adhesive transfer to the back of the plank or tile. Ensure that lifting edges are dealt with during bonding. If adhesive sets up or skins over, scrape it up and re-apply fresh adhesive. Work off the flooring or use knee boards to minimize floor indentations. Ensure that air is not trapped under the covering. Roll each section in both directions immediately upon completing with a minimum 100 lb. three section roller or a hand roller in smaller areas. Re-roll the entire area after one or two hours.

Optimum working conditions are 64°F to 77 °F (18°C to 25 °C) room temperature, minimum floor temperature of 50°F (10°C) and relative humidity below 65% for 72 hours after installation. Low temperatures and high humidity will delay, while high temperatures and low humidity will shorten the working time.

### Transitions

Install Harbinger transition and nosing with LePage PL Premium, or PL 400 adhesive or equivalent.

### MAINTENANCE

#### Precaution

Ensure all tiles and planks are free from general traffic for 24 hours after installation.  
Do not wash or polish the floor for a minimum of 48 hours after installation.

#### Protection

1. Protect the floor covering installation against dirt and other trades.
2. Allow light foot traffic after 12 hours of installation and regular traffic 24 hours after completion of work.
3. Do not thoroughly wash the floor with water prior to 30 days post installation. Wipe with a damp mop during the first month to allow adhesive to cure.
4. Temperature and humidity during and after the floor covering installation will have a direct effect on the drying time of the adhesive, therefore ensure that room temperature is kept at a minimum of 50°F (10°C) and relative humidity is no more than 65% for a period of 72 hours after the completion of work.
5. Post installation temperature should be maintained between 65°F to 85°F (18.3°C to 29.4°C)
6. Avoid exposure to direct sunlight for prolonged periods. Harbinger requires the use of ultraviolet protective film, blinds, curtains or shades to assure that Harbinger products are protected from sun and are not overheated due to this exposure. This type of exposure can induce expansion which may cause buckling. Floor covering exposed to excessive heat and light is subject to thermal degradation. Flooring in direct sunlight must be installed with UZIN KE 66 adhesive. Failure to install this with Harbinger approved adhesive when such flooring will be exposed to direct sunlight voids all warranties, express or implied; the end user shall assume full responsibility for any failure of the flooring, and Harbinger shall be released from any claims, damages, or liabilities whatsoever arising out of or related to the failure to install the flooring with approved adhesive when the flooring is exposed to direct sunlight.
7. All chair casters should be checked and cleaned prior to using on the new floor. All furniture and chair legs should be clean and fitted with appropriate glides or slides to protect from damage.
8. Furniture and fixtures should be lifted for moving and set in place with appropriate protection to prevent damage.

### METHOD FOR OBTAINING WARRANTY SERVICE

All warranty claims must be submitted to Harbinger in writing, along with proof of purchase.  
Refer to Harbinger Warranty Guideline for warranty exclusions and limitations.  
To file a claim, contact Harbinger North America Toll Free Tel/Fax 1-866-646-6519.