



General Installation Guidelines Harbinger Vinyl Wood Plank Collection

A. Product Suitability

Harbinger Vinyl Wood Plank is suitable for all interior floor surfaces, above, on or below grade, and over concrete or wood substrates. With a clear wear layer of 0.70mm, **Harbinger Vinyl Wood Plank** is ideally suited for heavy commercial environments such as retail, leisure, health and education.

Harbinger Vinyl Wood Plank is manufactured under ISO 9001:2000, *Quality management systems* and ISO 14001 Environmental Management System. Suitable for Recycling. Suitable for under floor heating.

B. Testing and Acclimatizing

It is essential to conduct a calcium chloride test (moisture test) on all concrete floors. The test should be conducted around the perimeter of the room, at columns, and where moisture may be evident. The moisture emissions from the concrete should not exceed 3lbs / 1000s.f. /24 hrs (1.36 kg / 92.9s.m. /24 hrs).

During this preliminary moisture-testing period, **Harbinger Vinyl Wood Plank** should be present at job site to allow an appropriate period for product to acclimatize. Remove material from packaging, spread out if possible and allow to condition in room where installation is to take place at a constant temperature of 18°-26° for a period of 24 hours prior to installation. This temperature should be maintained during installation, and for a 24 hour period after installation.

If the concrete exceeds moisture limitations, the installation should not proceed until the problem is corrected. A moisture problem can be corrected by sealing the concrete with any one of the many brands of concrete sealers available. After the sealer has been applied, re-test to ensure that the problem has been corrected. It is important to note that a moisture test indicates conditions at the time of testing only. The flooring contractor cannot be held responsible if moisture appears in the future, causing adhesive failure.

Please note that new concrete subfloors contain a high percentage of moisture and must be allowed to dry out. The drying time will depend on several conditions, such as the type of concrete used, average air temperature and thickness and location of the slab.

C. Surface preparation

Harbinger Vinyl Wood Plank can be installed using **Mapei Ultra/Bond G21** adhesive, it may be suitable for installation over non-porous surfaces and existing vinyl floors or used in wet use areas. Please consult your **Harbinger** Representative for your particular application.

1. All supporting surfaces shall be structurally sound, solid, stable, level, plumb and true to a tolerance in plane of 1/4" in 10 feet (6 mm in 3 m) for floors. They shall be dry, clean and free of dust, oil, grease, paint, tar, wax, curing agent, primer, sealer, old adhesive or any deleterious substance and debris which may prevent or reduce adhesion.
2. Mechanically sand, bead blast or scarify the substrate to completely remove all paint, loosely bonded topping, loose particles, construction debris, old adhesive and any contaminant that may prevent or reduce adhesion.
3. Remove any trace of strong acid or alkali from the substrate prior to the application of the surface product and/or the adhesive.
4. The supporting surfaces shall be dry. The moisture emission shall not exceed 3lbs / 1000s.f. /24 hrs (1.36 kg / 92.9s.m. /24 hrs) for concrete. For wood underlayment, the moisture content should meet with the requirements of the wood manufacturer and/or flooring manufacturer, generally 8-10% using a "Delhmorst Wood Moisture tester".

5. In all cases, the structural design of floors shall not allow a deflection of more than 1/360 of span under live or dead loads.

Concrete

1. Concrete substrates shall be free of sealer or curing compound. The substrate shall be cured for a minimum of 42 days and tested for moisture emission using the anhydrous calcium chloride method. Test results shall be no more than 3lbs/1000s.f. /24 hrs (1.36kg / 92,9s.m. /24 hrs) prior to the installation of the floor covering.
2. Concrete substrates shall be finished using a flat trowel. The surface shall be sound, true and level to a tolerance in plane of 1/4'' in 10 feet (6 mm in 3 m) for floors.
3. The installer shall be responsible to complete a humidity test and provide the general contractor and/or the architect with the written results prior to the execution. A humidity test has to be done at least 96 hours (4 days) prior to commencing work and the results shall not exceed 3lbs / 1000s.f. /24 hrs (1.36kg / 92.9 s.m. /24 hrs) with the anhydrous calcium chloride test.
4. All new concrete surfaces should be steel trowel finished. A moisture barrier with a permeance of less than 0,2 metric perms as measured according to the ASMT-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 specified sub-paragraph 2.1. 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 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.

Wood underlayment

1. Particleboard, strand board and flake board are not RFCI-recommended underlayments, therefore are not recommended for use as a substrate for Harbinger 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 (SEL TF) COFI classified.
3. The installation of wood underlayment shall comply with ASTM F499-84 standard.
4. All wood underlayment shall be new and acclimated for at least 24 hours to the job site condition prior to installation.
5. When required, the wood underlayment shall be filled and patched to correct Seams, cracks, indentations and other subfloor irregularities using the proper products. **PLANI/PATCH**: Fast setting cement-based polymer modified patching compound and **PLANI/PATCH PLUS**: Acrylic latex additive for use with **PLANI/PATCH** are recommended. Other types of levellers, such as calcium sulfate/plaster/gypsum based compounds are not recommended

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. When installed with **MAPEI ULTRA/BOND ECO 300** adhesive, **Harbinger Vinyl Wood Plank** may be installed over a single layer of non-cushioned resilient flooring provided the following conditions have been met
 1. The existing flooring must be fully adhered and well-bonded;
 2. The sub floor or underlayment that is under the existing resilient floor must meet the requirements of **Harbinger Vinyl Wood Plank** .
 3. 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 with the **PLANI/PATCH PLUS** System and entire floor skim coated to ensure adhesion.

4. Any waxes or finishes must be completely removed and rinsed with clean water; and If existing floor has been installed over concrete, on a below grade, one calcium chloride moisture test must be performed for every 1000 square feet. The results of the test 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.

D. Installation

- **Applying Harbinger Vinyl Wood Plank**
 - A. Use **MAPEI ULTRA/BOND ECO 300** or approved adhesive when applying **Harbinger Vinyl Wood Plank** over porous sub floors, such as concrete or wood.
 - B. Use **MAPEI ULTRA/BOND G21** when applying **Harbinger Vinyl Wood Plank** over non porous surfaces and existing vinyl floors or when used in wet use areas.
Please consult your **Harbinger Vinyl Wood Plank** Representative for your particular application.
- 1. Do not install over concrete floors that are excessively cold or radiant-heated with floor temperatures that exceed 85°F (25°C). Radiant heating should be turned off 12 hours before commencing installation.
- 2. Spread the adhesive with the recommended notched trowel to assure enough adhesive coverage to achieve 95% transfer to the backing of the floor covering.
(1/16"x1/16"x1/16" for **Mapei Ultra/Bond ECO 300**)
(1/32"x3/64"x13/64" for **Mapei Ultra/Bond G21**)
*Trowel sizes are a guideline and may vary depending on substrate and site conditions.
- 3. Work in small enough area to ensure that **Harbinger Vinyl Wood Plank** is laid into adhesive immediately before it skins over or dries. The adhesive working time is approximately 20 minutes under normal conditions. Position 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 for best visual appearance. Periodically check by lifting a tile to make sure that at least 95% of the adhesive pattern has been transferred to the back of the plank or tile. If adhesive starts to set up or skins over, scrape it up and reapply fresh adhesive.
- 4. **Harbinger Vinyl Wood Plank** installed next to each other shall be in consecutive lot numbers.
- 5. 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. Promptly remove adhesive smudges with a clean cloth dampened with water while adhesive is still fresh and mineral spirits when dried.
- 6. Ensure that all tile and planks are free from general traffic for 24 hours after installation.
- 7. Do not wash or polish the floor for a minimum of 48 hours after installation.
- 8. The manufacturer or supplier will not be liable for any loss, damage or complaint of any kind if the specific laying procedure described in this guide is not followed.

E. Protection

1. Protect the floor covering installation against dirt and other trades.
2. Do not allow traffic over the installation before 24 hours after work completion.
3. Do not wash thoroughly the floor covering with water before 30 days. 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 65°F (15°C) and relative humidity be no more than 65% for a period of 72 hours after the completion of work.

F. Cleaning and Maintenance

Regular cleaning and maintenance will provide long lasting beauty and make caring for your **Harbinger Vinyl Wood Plank** floor a breeze. Before starting floor must be cleaned of loose dirt with a soft broom or vacuum cleaner.

Step 1: Harbinger Millennium Satin Low Gloss Floor Finish

- Apply **Millennium Satin Low Gloss Floor Finish** in a thin, even coat using a wax mop after the floor has been thoroughly cleaned with **Millennium Neutral Blue Floor Cleaner** . Allow the first coat of **Millennium Satin Low Gloss Floor Finish** to dry for approximately 30 minutes, and then repeat the process in opposite direction. It is recommended to let the floor dry overnight before walking on the surface.
- a) When, after a period of time, the protective coating created with **Millennium Satin Low Gloss Floor Finish** needs replenishing, the floor should be deep cleaned with **Millennium Neutral Blue Floor Cleaner** before reapplication of **Millennium Satin Low Gloss Floor Finish**.
- b) Periodically the floor may require stripping and refinishing. Use **Millennium Neutra-Strip Floor Stripper** and refinish as above. Please request Technical Data sheets from your Harbinger representative.

Step 2: Harbinger Millennium Neutral Blue Floor Cleaner makes floor cleaning easy and keeps floors looking newer longer. Can be used with mop and bucket, automatic scrubber or trigger sprayer and cloth.

For Routine Cleaning:

- Thoroughly sweep or vacuum floor before washing. Add 1 ounce (4 mL/L) of **Millennium Neutral Blue Floor Cleaner** to 1 gallon of warm water. Damp mop the floor using a clean sponge or mop. At routine cleaning concentrations it is not necessary to rinse the floor after cleaning. For best results, continue to rinse the mop or sponge throughout the cleaning process.

For Extra Dirty Floors:

- Add 2 ounces (8 mL/L) of **Millennium Neutral Blue Floor Cleaner** to gallon of warm water. Proceed as stated above. Rinse.

For Heavily Soiled Areas:

- Add 8 ounces (50 mL/L) of **Millennium Neutral Blue Floor Cleaner** to gallon of warm water and allow it to saturate for 3-4 minutes. A scrub brush or nylon pad may be used to loosen dirt. For best results, continue to rinse the brush or pad throughout the cleaning process. Rinse.

For an Extra Protective Coating:

- In Extra high traffic conditions it may be desirable to apply **Millennium Satin Shield Stain Resistant Floor Sealer** before the application of the **Millennium Satin Low Gloss Floor Finish**.



TWENTY FIVE YEAR COMMERCIAL WARRANTY

Harbinger warrants all of their first quality floor tiles and planks to the original purchaser against “wear out” for a period of twenty five years, providing the material was installed and maintained properly, and used as intended and recommended. “Wear-out” is defined as a complete removal of pattern an/or color from normal traffic and maintenance, In the event “wear-out” occurs within ten years of the date of purchase, Harbinger will repair or provide replacement for materials, and reasonable labour costs providing professional installation was paid for when the floor was originally installed. This warranty gives you specific legal rights; you may also have other rights, which may vary from state to state and province to province. Harbinger reserves the right to have a Representative inspect the floor before any claim under this warranty is acknowledged. Warranty Claims must be made within 90 days of detection and be accompanied with the original proof of purchase.

Furthermore, Harbinger Vinyl Wood Planks are warranted to be free of any manufacturing defects. Any other implied warranty that the goods shall be fit for a particular purpose is hereby excluded. Harbinger accepts no responsibility for faulty installation or incorrect maintenance.

This warranty does not include the following:

1. Damage due to tears, cuts, gouges, scratches, stains, burns, scuffs, indentations, and other accidents or abuse. Use without proper floor protection devices under furniture.
2. Materials installed with obvious defects
3. Discoloration or bond release from hydrostatic pressure or excessive moisture caused by such things as flooding, plumbing and appliance leaks.
4. Installation of flooring over particleboard, chip wood or pressed wood.
5. Loss of time, inconvenience or other incidental expenses incurred in removal or re-installation of affected material.
6. Installation where material was not installed with Harbinger recommended adhesive in accordance with Harbinger specifications and recommended usage.
7. Dissatisfaction due to improper installation, maintenance or irregularities cause by sub floor.
8. Reductions in gloss or build up of residue due to improper maintenance, abrasive cleaners, or normal wear and gloss reduction from use.

**WARRANTY CLAIMS MUST BE MADE TO:
HARBINGER NORTH AMERICA
Toll free phone/fax 1-866-646-6519**

www.harbingerfloors.com