

HENRY®

HENRY® 422 Fortify

Wet-Set Vinyl-Backed Flooring Adhesive

For commercial and residential installations of LVT & LVP, solid vinyl tile, plank, and vinyl-backed sheet flooring

Fiber-reinforced; high bond strength



Develops strength quickly for challenging installations

Wet-set / hard-set

Reduced LVT and LVP slippage during install



Reduced adhesive displacement (knee marks)

Use with any vinyl-backed flooring goods (LVT and LVP, homogenous, heterogenous)



Pail Sizes:

1-gallon / 3.78 L Pail

4-gallon / 15.14 L Pail

ARDEX Americas
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Aliquippa, PA 15001 USA
888-512-7339
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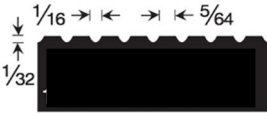
Wet-Set Vinyl-Backed Flooring Adhesive

Suitable Applications, Recommended Tools and Coverage*¹

When the specific guidelines for installation from the flooring manufacturer call for a fully adhered, glue-down installation; for flooring types not listed, contact the ARDEX Technical Service Department.

Dry areas only; Interior applications only.

Trowel notch sizes and spread rates are guidelines. It is the responsibility of the installer to apply enough adhesive based on the needs of the floor covering and the condition of the substrate.

Flooring Type (Wet-set permanent Only)	Porosity	
	Standard absorbent (porous)	Non-absorbent (non-porous; burnished)
Vinyl tile / plank (LVT, LVP, SVT, VCT, VET) Sheet vinyl vinyl stair treads, vinyl-backed carpet, vinyl cushion-backed carpet tile Vinyl-backed carpet tile	 <p>Sq. notch trowel 1/16" D x 1/16" W x 1/16" A: Coverage Per 1-Gallon (3.78 L) Pail: Up to 117 - 135 sq. ft. (10.8 - 12.5 m²) Coverage Per 4-Gallon (15.14 L) Pail: Up to 468 - 540 sq. ft. (43.4 - 50.1 m²)</p>	 <p>U-notch trowel 1/32" D x 1/16" W x 5/64" A*³: Coverage Per 1-Gallon (3.78 L) Pail: Up to 225 - 240 sq. ft. (20.9 - 22.2 m²) Coverage Per 4-Gallon (15.14 L) Pail: Up to 900 - 960 sq. ft. (83.6 - 89.1 m²)</p>

Suitable Substrates*¹

- Concrete (structurally sound)
- Patching, leveling or fill materials*²
- Absorbent terrazzo on concrete*²
- Untreated APA-grade underlayment plywood*²
- Properly primed Gypsum underlayments (Above-grade only)
- Radiant-heated subfloors not to exceed 85°F (29°C)
- Other approved, non-porous materials on concrete:*²
 - Ceramic, quarry or porcelain tiles
 - Non-porous (non-absorbent) cementitious terrazzo
 - Existing resilient flooring (fully adhered, non-cushion backed)
 - Certain metals and Epoxy coatings: Contact the ARDEX Technical Service Department before proceeding further.

*¹ Refer to the specific recommendations of the flooring manufacturer for suitable substrates. Please note that all substrates must be clean, sound, solid, well bonded and prepared as detailed below.

HENRY flooring adhesives have a long-standing successful track record of use with a wide range of floor coverings. Always follow the advice of the flooring manufacturer. Contact the ARDEX Technical Service Department for further guidance

*² Must be sound, solid and well-bonded to underlying, structurally sound substrates.

*³Note - minor imperfections on the surface of the substrate, such as concrete trowel marks and pitting, must not exceed the 1/32" (0.7 mm) height of the adhesive trowel ridge.

Dimensional Stability of Flooring Structures

Some floor coverings may grow or shrink as a result of acclimation, handling and/or how the products were manufactured. Install representative test areas to determine the suitability of this adhesive to resist any dimensional change. Please note that ARDEX Americas cannot be held responsible for installation issues caused by dimensional changes in flooring structures.

Step 1: Moisture Evaluation and Testing

This product is intended for interior, dry spaces. Hydrostatic pressure, plumbing leaks, flood factors and other sources of water infiltration must be identified and corrected prior to installation. This product is not a vapor barrier and will allow free passage of moisture vapor.

Test concrete relative humidity (RH) in accordance with ASTM F2170. Moisture control is required in the following circumstances:

- If the RH exceeds The limitations associated with the selected floor covering
- If the RH exceeds 85%
- If the slab is on-ground and the presence of an effective and intact underlying vapor retarder conforming with ASTM E1745 cannot be verified and/or the slab is newer than 45 days old.

Step 2: Jobsite Preparation

Refer to the specific recommendations of the flooring manufacturer for substrate preparation. Acclimate the installation area, adhesive and flooring in an enclosed building at a minimum of 65°F (18°C) for at least 48 hours before, during and for 48 hours after installation. Relative humidity of air within the space cannot exceed 65% for 72 hours following installation. If installing over an in-floor heating system, turn the heating system off 48 hours before, during and at least 48 hours after completion of the installation.

Step 3: Substrate Preparation (Proper Prep™)

For full details on Proper Prep, reference the following articles at www.ardexamericas.com/services/properprep:

- Article 1: Preparing Concrete for Bonded ARDEX or HENRY Applications
- Article 2: Preparing Wood for Bonded ARDEX Applications
- Proper Prep Brochure

Mechanically clean substrate, if necessary by shot blasting or similar means. Do not use acid etching, adhesive removers, solvents or sweeping compounds, as these are bond breakers. Sanding is not an effective method to remove contaminants from concrete.

Substrate must be dry and alkali free. All substrates must be sound, solid and thoroughly clean of all bond-breaking contaminants, including but not limited to: overwatered or otherwise loose or weak material; dirt, dust, wax, grease, paints and oils; all curing compounds and sealers

Substrate must be sound, smooth and flat in accordance with finish manufacturer requirements. Ensure that the substrate is solid and fixed securely to provide a rigid base free of undue flex. Address rough unsmooth areas, cracks, holes and levelling needs with appropriate substrate preparation products.

Following preparation, thoroughly vacuum to remove all excess dirt and debris.

Handle and dispose of asbestos and other hazardous materials in accordance with prevailing regulations, which supersede the recommendations in this document.

Step 4: Priming (Gypsum Substrates Only)

Gypsum substrates must be primed to ensure that the adhesive will have sufficient open time and working time. Prime with HENRY 336 undiluted in accordance with the technical data sheet.

Step 5: Application

Follow the guidelines from the flooring manufacturer for layout, design and suitable installation methods. Remove lid and stir any liquid found on the surface into the adhesive. This adhesive is ready-to-use and does not require mixing. Replace worn trowels as required to ensure recommended amount of adhesive is being applied.

Application Data

Physical properties are typical values and not specifications. All data based on 70°F / 21°C.

Standard absorbent (porous) Substrates:

Approximate Required Open time:	15 - 25 minutes
Maximum Open time:	90 minutes

Non-absorbent (non-porous; burnished) Substrates:

Approximate Required Open time:	30 - 40 minutes
Maximum Open time:	2 hours

Instructions

- Apply adhesive evenly using the recommended proper tool.
- See “maximum open time” above, if applicable. Do not apply more adhesive than can be covered within approximately this time period. Do not allow a heavy film to form on the surface of the adhesive.
- See “approximate required open time” above, if applicable. Before installing flooring, allow the troweled adhesive to set open for this amount of time.
- Roll the installed floor across width and length using a 3-section 100 lb heavy roller as recommended by the flooring manufacturer. Weight down seams as recommended by the flooring manufacturer.

Step 6: Cleanup

Remove wet adhesive residue with a clean, white cloth dampened with soapy water. Use mineral spirits for dried adhesive residue. When using mineral spirits, carefully follow the recommendations of the manufacturer, and test a small area before proceeding to make sure it does not damage the surface being cleaned.

Step 7: Time to Traffic

12 hours. Protect all floor coverings when moving heavy appliances and/or when rolling loads are utilized. All dry times are calculated at 70°F (21°C). Drying time is a function of jobsite temperature and humidity conditions. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying.

Notes

Never mix with cement or additives outside of our written recommendations. In accordance with industry standards, and to determine the suitability of the products for the intended use, always install an adequate number of properly located test areas, including the finish flooring. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directives, such as maximum allowable moisture content, adhesive selection and intended end use of the product. If the installation is not proceeding as expected: Contact the ARDEX Technical Service Department before proceeding further. Contact the ARDEX Technical Service Department before proceeding further.

Observe the basic rules of concrete work, including the minimum surface and air temperatures detailed above. Install quickly if the substrate is warm, and follow the warm weather installation guidelines available on our website.

Dispose of packaging and residue in accordance with prevailing regulations. Do not flush material down drains. Do not reuse packaging.

Technical Data According to Manufacturer Quality Standards

Physical properties are typical values and not specifications.

VOC:	83 g/L, SCAQMD 1168
Storage:	Do not freeze. Store at temperatures between 40 and 90°F (5 - 32°C). Do not leave units exposed to sun.
pH Range	5-11
Shelf Life:	12 months, if unopened and properly stored.
Warranty:	10-Year Limited HENRY'S BEST WARRANTY. Also eligible for ARDEX SystemOne™ Warranty. For full warranty details: www.ardexamericas.com/services/warranties .

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.wwhenry.com.

Made in the USA.

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www.wwhenry.com.

Visit www.youtube.com/ARDEX101 to watch ARDEX product demonstration videos. For recommended installation tools, visit DTA USA at www.dtausagroup.com. For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App.



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