



HENRY® 650 R Releasable Pressure Sensitive Adhesive

Delivers a truly releasable bond in the upward peel direction, while at the same time providing heavy commercial traffic-rated bonding strength in the lateral shear direction



99% RH moisture resistant*

Ideal for frequently renovated commercial and residential spaces



Excellent resistance against plasticizer migration

Unlimited working time available if needed

Pail Sizes:

1-quart / 946 mL Pail

1-gallon / 3.78 L Pail

4-gallon / 15.14 L Pail



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HENRY® 650 R Releasable

Pressure Sensitive Adhesive

Suitable Applications, Recommended Tools and Coverage*¹

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.

Dry areas only; Interior applications only

For homogeneous sheet vinyl use: HENRY® 695 or HENRY® 647. For homogeneous vinyl tile use: HENRY® 422

Flooring Type* ²	Substrate Porosity					
	Wet-set permanent: Standard absorbent (porous) Substrates Only					
	Dry-to-the-touch (pressure-sensitive) applications: All Substrates					
	Standard absorbent (porous)	Non-absorbent (non-porous; burnished)	Standard absorbent (porous)	Non-absorbent (non-porous; burnished)	Standard absorbent (porous)	Non-absorbent (non-porous; burnished)
Vinyl-backed carpet tile	✓	✓	✓	✓	✓	✓
Vinyl cushion-backed Carpet Tile	✓	✓	✓	✓	✓	✓
Fleece-backed and bituminous-backed carpet tile	✓	✓	✓	✓	✓	✓
Fiberglass-encapsulated cushion-backed Sheet Vinyl	✓	✓	✓	✓		
Designated carpet Cushions (cushion-to-substrate only)	✓	✓			✓	✓
Vinyl tile / plank (LVT, LVP, SVT, VCT, VET)			✓	✓	✓	
Heterogeneous Sheet vinyl			✓	✓	✓	
	 Short-nap (1/4" - 3/8") roller: Coverage Per 1-Quart (946 mL) Pail: Up to 75 sq. ft. (6.95 m²) Coverage Per 1-Gallon (3.78 L) Pail: Up to 300 sq. ft. (27.8 m²) Coverage Per 4-Gallon (15.14 L) Pail: Up to 1,200 sq. ft. (111.4 m²)		 U-notch trowel 1/32" D x 1/16" W x 1/32" A: Coverage Per 1-Quart (946 mL) Pail: Up to 75 sq. ft. (6.95 m²) Coverage Per 1-Gallon (3.78 L) Pail: Up to 300 sq. ft. (27.8 m²) Coverage Per 4-Gallon (15.14 L) Pail: Up to 1,200 sq. ft. (111.4 m²)		 Sq. notch trowel 1/16" D x 1/16" W x 1/16" A: Coverage Per 1-Quart (946 mL) Pail: Up to 31.25 - 37.5 sq. ft. (2.9 - 3.48 m²) Coverage Per 1-Gallon (3.78 L) Pail: Up to 125 - 150 sq. ft. (11.6 - 13.9 m²) Coverage Per 4-Gallon (15.14 L) Pail: Up to 500 - 600 sq. ft. (46.4 - 55.7 m²)	

*²When 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.

Suitable Substrates*¹

- Concrete (structurally sound)
- Absorbent terrazzo on concrete
- Patching, leveling or fill materials
- Untreated APA-grade underlayment plywood*³
- Properly primed Gypsum underlayments (If the slab is on-grade)
- Radiant-heated subfloors not to exceed 85°F (29°C)
- Other approved, non-porous materials on concrete:*³
 - 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.

*¹Refer 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

*³Must be sound, solid and well-bonded to underlying, structurally sound substrates.

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 99%
- 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; all adhesive residues.

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. Please note that open times may be reduced when installing over patching and leveling materials or highly porous substrates.

Releasable, Dry-to-the-touch (pressure-sensitive) applications:

Approximate Required Open time:	30 - 60 minutes
Maximum Open time:	24 hours

Wet-set permanent:

Approximate Required Open time:	5 - 10 minutes
Maximum Open time:	30 minutes

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. Dry-to-the-touch (pressure-sensitive) applications: Ensure that the adhesive reaches a dry-to-the-touch state (tacky, but no transfer to fingers).
- 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

Wet-set permanent: 12 hours. Releasable, Dry-to-the-touch (pressure-sensitive) applications: Immediately. 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. Protect all floor coverings when moving heavy appliances and/or when rolling loads are utilized.

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:	0
Storage:	Store in a cool, dry area. Do not leave units exposed to sun. Freeze-thaw stable to 10°F / -12°C. Avoid lower temperatures and multiple freeze-thaw cycles.
pH Range	5 - 12
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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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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