

# HENRY®

The Professional's Formula For Success™

# 412

## High-Performance Rubber Flooring Adhesive

**For installing natural and synthetic rubber sheet flooring, rubber tile, rubber stair treads and vinyl stair treads over a variety of substrates.**

- Superior ultimate bond: ensures long-term performance
- Outstanding dimensional stability: reduces potential for shrinkage and expansion
- Powerful initial grab: prevents slippage during installation and helps reduce edge curl
- Excellent trowelability: easy to use, saves time
- Solvent-free and low odor
- Freeze / thaw stable: resists temperature extremes
- Easy cleanup: cleans with water



**GREENLINE**  
ENVIRONMENTAL TECHNOLOGY



**Porous Substrates**  
**Sq. Notch 1/16" D x 1/16" W x 1/16" A**  
99-108 sq. ft. / gal.  
9.19-10.03 sq. m / L



**Non-Porous Substrates**  
**V-Notch 1/16" D x 1/16" W x 1/16" A**  
108-117 sq. ft. / gal.  
10.03-10.86 sq. m / L

The W.W. Henry Company  
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# HENRY® 412

## High-Performance Rubber Flooring Adhesive

### Description

A premium, high-strength adhesive for installing rubber sheet flooring, rubber tile and rubber and vinyl stair treads.

### Use For

For the installation of natural and synthetic rubber sheet flooring, rubber tile, rubber stair treads and vinyl stair treads. Not for use with recycled rubber products and is not to be used over existing resilient flooring.

### Bonds To

Refer to the flooring manufacturer's specific recommendations for suitable substrates.

- **Porous:** Concrete, cementitious underlayments, APA grade underlayment plywood (untreated) and radiant heated subfloors where temperatures do not exceed 85°F (29.4°C) on all grade levels.
- **Non-porous:** Staircases, terrazzo, ceramic tile, metal and certain epoxy coatings.

### Preparation

- Refer to the flooring manufacturer's specific recommendations.
- 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.
- Substrate must be sound, smooth and flat in accordance with the flooring manufacturer's recommendations. Ensure that the substrate is solid and securely fixed to provide a rigid base free of undue flex. All loose substrates must be re-nailed or bonded properly to create a sound surface. Cementitious patching and/or leveling materials must have a minimum compressive strength of 3,000 psi.
- Substrate must be clean, dry and free of excess moisture and alkali. Mechanically remove dirt, wax, grease, paints, oils, sealers, curing compounds and all foreign matter that would interfere with proper adhesion. Fill all cracks, holes and low spots with a polymer modified, cementitious patching or leveling compound. Please note that when removing existing flooring, any asbestos-containing materials should be handled and disposed of in accordance with applicable federal, state and local regulations.
- While this adhesive is moisture resistant, the flooring must be protected from excessive moisture. Always perform moisture and alkali tests for concrete on any grade level. Moisture test results should meet the flooring manufacturer's recommendations but should not exceed 85% RH as determined by the relative humidity test method (ASTM F2170). Alkali readings should be a maximum pH 10.

### Dimensional Stability of Flooring Structures

Some floor coverings may grow or shrink as a result of acclimation, handling and/or how the product was manufactured. Install a representative test area to determine the suitability of HENRY® 412 to resist any dimensional change. Please note that The W.W. Henry Company cannot be held responsible for installation issues caused by dimensional changes in flooring structures.

### Installation

Follow the flooring manufacturer's guidelines for layout and design. Stir any liquid found on the surface into the adhesive, and apply adhesive using the proper trowel. Do not spread more adhesive than can be covered within 40 minutes for porous substrates, 45 minutes for non-porous substrates, depending upon temperature and humidity.

- **Porous Substrates:** Allow the adhesive to set open 5-10 minutes before installing rubber tile, stair treads and sheet flooring.
- **Non-Porous Substrates:** Allow the adhesive to set open for 30 minutes before installing rubber tile, stair treads and sheet flooring. At that time, you have up to 15 minutes to install the floor coverings.
- **Installation Of Stair Treads:** Keep HENRY 412 adhesive back about 1/2" from the nose of the stair. Apply the adhesive to the substrate using the proper trowel. During the dry time for the HENRY 412 adhesive, apply HENRY® 452 General Purpose Epoxy Flooring Adhesive to the stair tread nose. Press nosing into stair so epoxy molds to the shape of the nosing and stair. Roll with a J-type hand roller.

Do not allow a heavy film to form on the surface of the adhesive. If the adhesive dries or skins over, it must be scraped up, and fresh adhesive needs to be applied. After installation, roll the flooring with a 100 lb. roller across width and length, as recommended by the flooring manufacturer. Weight down seams as recommended by the flooring manufacturer.

Adhesive must set 12 hours before exposing to traffic. Follow the flooring manufacturer's recommendations for service and maintenance.

### Clean Up

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.

### Warranty

5-Year Limited HENRY'S BEST WARRANTY. Failure to follow written directions will void the warranty. For complete warranty details, please contact our Customer Service Center at 1-800-232-4832.

### Notes

Do not reuse container. Dispose of container and adhesive residue in accordance with federal, state and local waste disposal regulations. Do not flush adhesive down drains.

- FOR PROFESSIONAL USE ONLY
- Freeze/thaw stable to 10°F (-12°C). Avoid lower temperatures or multiple freeze/thaw cycles.
- Shelf life is 1 year, if unopened.
- VOC: 3 g/L, calculated and reported, SCAQMD 1168

### Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Material Safety Data Sheet (MSDS) available at [www.wwhenry.com](http://www.wwhenry.com).

Made in the USA by The W. W. Henry Company, Aliquippa, PA 15001

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