



TECHNICAL DATA SHEET
Henry[®] GC Epoxy Primer
Part A&B

Moisture mitigating epoxy-based primer

Physical Property per ASTM F3010-13	Typical Value	Test Method
Adhesion	> 435 psi, substrate failure	ASTM C1583/ ASTM C1583M-04
Alkali Insensitivity	No effect, ph 14, after 14 days	ASTM D1308-02
Concrete RH Resistance	Up to 100%	ASTM F2170-09
Moisture Vapor Emission Rate Reduction (MVER)	25lbs/24hrs/1000sf, reduced to 0.2lbs/24hrs/1000sf	ASTM F1869-10
Solids Content by Volume	100%	ASTM D1644-2001 Method A
Viscosity @ 68°F (mixed)	1400-1800 cps	ASTM D2196-10
VOC Content (maximum)	0 g/l	ASTM C1250-05 (as per C836M-10, C957M-10)
Water Vapor Transmission	Over 98% reduction = less than 0.1 perms	ASTM E96M-05 (Wet Method)

Description

Henry[®] GC Epoxy Primer is a 100% solids, two-component, epoxy sealer/primer.

Features

- Meets ASTM F3010-13 requirements
- Specially formulated to be applied on saturated (up to 100% Relative Humidity) substrates
- Reduces moisture vapor emission rate (MVER) below 3lbs/24hrs/1000sf
- Can be applied on green (5 days after placement) concrete
- Highly alkaline resistant (concrete ph 14)
- Has no odor, solvent-free or zero VOC for LEED EQ 4.2 credit
- Can be left exposed to rain and ponded water

Usage

Henry[®] GC Epoxy Primer is used to seal water and prevent vapor drive in concrete, wood and exterior roof boards.

Application

Site conditions: All surfaces should be prepared as per the approved **Henry[®]** specification. Ensure water sealed in substrate will not affect other parts of building. Substrate moisture testing can be carried out to ASTM F2170-09 (RH) and F1869-10 (vapor pressure) but is not required. Air and substrate temperatures must be between 50 °F and 90 °F. The surface temperature of the first **GC Primer** coat must be at least 6 °F above the dew point and rising. Use a surface dew point meter.

Surface preparation: Substrates to be coated must be free of laitance and contaminants that would impair adhesion.

Do not apply on substrates that have been treated with any type of form release agent or sealer.

- Concrete should be shot blasted or mechanically abraded.
- Do not acid etch.
- Surface profile to meet CSP-3, with no imperfections which would prevent the minimal film thickness being formed.
- Fill all voids and bug holes.
- Remove concrete reinforcing fibers.
- Wood must be exterior grade, dry, clean and fixed with exterior deck screws.
- Apply **Henry[®] GC Epoxy Primer[®]**, when temperatures are constant or falling and out of direct sunlight, to minimize the risk of pinholes, blister formation or delamination due to substrate vapor pressure.
- Consult Henry rep for a determination of “elevated temperatures” which vary due to site conditions.

GC Epoxy Primer

If there are any doubts about the suitability of a substrate, further advice should be sought from a **Henry®** representative and a small trial area applied and tested appropriately.

Product mixing: Henry® GC Epoxy Primer Parts A&B are pre-measured. Mix all Part A (Resin) with all of Part B (Hardener). They must be thoroughly mixed using an electric, slow speed (300-400rpm), high torque drill with spiral (JIFFY) mixing paddle.

Mix Ratio by Volume:

- 1) Pre-mix Part A in pigment for 30 seconds in pail. Dispense into separate, clean bucket being careful not to hit sides.
- 2) Add Part B, taking care not to hit the sides, and mix for 1 – 1½ minutes

Work the mixing paddle around the sides and bottom of the mixing pail to achieve a uniform, streak free homogenous liquid. Scrape out all the material from the mixing pail.

Do not mix new material with old, uncured material as this can significantly reduce work times. Use new pails frequently

Pot Life @ 68 °F: 20-25 minutes. The working time of **Henry® GC Epoxy Primer** will be influenced by the length of time it is mixed (longer mixing results in shorter pot life), the substrate and ambient temperatures and how quickly it is removed from the mixing pail and spread on the substrate.

Product Application: Henry® GC Epoxy Primer is applied evenly by flat squeegee and back rolled with a medium nap (3/8") roller. Apply slight pressure on the roller to ensure all voids and pores are filled and remove all material puddles. **Henry® GC Epoxy Primer** is normally applied in two coats, as per the approved **Henry®** specification. A monolithic and fully cured film of 11 mils minimum, must be formed with the first coat. It must then be inspected for any pinholes or voids, which are then filled, using **Henry® GC Epoxy Primer** and Henry® Filler to form a paste. The surface temperature of the first coat must be at least 6 °F above the dew point and rising. Use a surface dew point meter.

Application Rate:

- First coat, gray color @ 80sf/gal (240sf/3 gal. kit)
- Second coat, red color @ 125-130sf/gal (375-400sf/3 gal. kit)
The second coat must be fully broadcast with **Henry®** specified sand to provide shear bond of next coating.

WFT-DFT (Wet and Dry Film Thickness): 11 mils/coat, minimum

Re-coat and Traffic Times: Minimum @ 68°F = 4 hours, Maximum 48 hours, unless fully broadcast with sand.
Colder temperatures will increase this time.

Product Restrictions and Limitations: After two coat application, the surface should be tested to ASTM D4263 (2012), to ensure no moisture vapor is passing through. **Henry® GC Epoxy Primer** will not bridge moving cracks or joints in the substrate. It cannot be used for aluminum, copper, stainless or galvanized metals - use Pumadeq™ Primer 20. Can be rained on 4 hours after installation @ 68 °F. Colder temperatures will increase this time.

NOTE: Before using **Henry® GC Epoxy Primer**, please refer to Safety Data Sheet (SDS). Ensure the same safe working methods are followed for all persons in the work area.

Clean-up

Clean-up of tools and equipment may be accomplished by using, Acetone or MEK. Read and follow all Health and Safety instructions on SDS. Wash body with soap and water. Ensure all materials are mixed and cured before disposal, in accordance with federal, state and local regulations. Dispose of all packaging in accordance with federal, state and local regulations.

Packaging

Kit = 3 gallons in plastic pails Part A Resin = 2 gallons Part B Hardener = 1 gallon

Colors

Gray, Red

GC Epoxy Primer

Shelf Life/ Storage

One year in unopened containers stored between 55 °F and 90 °F. Lower temperatures may cause crystallization. Storing the material at a higher temperature may reduce its shelf life. Under dry, ventilated conditions and out of direct sunlight. Keep in an upright position and do not over stack.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

Henry is registered trademark of Henry Company.

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry® Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.