

Physical property	Typical value	Test method
Appearance	Clear/Amber	-
Solids Content by Volume	100%	ASTM D1644-2001, Method A
Viscosity @ 68F, mixed	1050cps	ASTM D2196-10
Adhesion	> 435 psi, substrate failure	C1583/C1583M-04
VOC Content (maximum)	0 g/l	ASTM C1250-05

### Description

Henry® ST Primer is a 100% solids, two-component, epoxy primer.

### Features

- Designed to provide a thick resin film, capable of holding aggregate,
- Also fills cracks and small pores in surfaces
- Low odor, solvent free and VOC compliant
- After fully cured, can be left exposed to rain and ponded water

### Usage

ST Primer is used as a primer on concrete, wood, exterior cover/cement boards and steel.

### Application

**Site Conditions:** All surfaces should be prepared per the approved Henry specification and Tech Talk. Air and substrate temperatures must be between 50° F and 90° F. For temperatures below 50° F, use Henry® STXL Primer. Concrete must be cured for a minimum of 28 days.

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

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

- Concrete should be shot blasted or mechanically abraded
- Surface profile must meet CSP 3-4
- Steel should be mechanically abraded by power tool (i.e. disc grinder or wire cup brush) in accordance with SSPC – SP3. Remove oil and other residue by wiping with MEK or Acetone and a clean cloth. Prime immediately after surface preparation to avoid flash rusting.
- Wood or Roof boards must be exterior grade, dry, clean and fixed with exterior screws

**Application:** Apply ST Primer when temperatures are constant or falling and out of direct sunlight, to minimize the risk of pinholes, blister formation or delamination due to moisture drive.

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:** ST Primer Parts A (2 gallons) & B (1 gallon) are pre-measured.

Mix all Part A with all of Part B.

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. Dispense Part A into a separate, clean, dry mixing pail. Mix for 30 seconds, taking care not to hit the sides.
2. Add Part B, taking care not to hit the sides, and mix for a minimum 1 minute.

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. Decant to a new pail and use immediately

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

## Henry ST Primer

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**Pot Life @ 68° F: 20 minutes.** The working time of **ST 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: ST Primer** is applied evenly by a 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.

Broadcast clean, dry aggregate into wet resin as per Henry specification, typically sieve size #20-50 @ 0.25lbs/sf

### Application Rate:

- 135sq.ft/gal (400sq.ft/3-gal. kit) on CSP 3-4 profile substrate

Allow for saturation of rollers and brushes

**WFT-DFT:** 10 mils, depending on surface porosity

### Re-coat and Traffic Times after application:

Minimum @ 68° F = 4 hours.

Maximum 48 hours.

No maximum when fully broadcast with sand.

If this maximum time is exceeded, **ST Primer** must be abraded (to a dull finish), wiped with Acetone or MEK and clean cloths.

### Product Restrictions and Limitations:

**ST Primer** will not bridge cracks or joints in the substrate.

Cannot prevent moisture mitigation – use **Henry® GC** or **Henry® GCXL Primer**

It cannot be used for aluminum, copper, brass or galvanized metals. Use **Henry® Pumadeq Primer 20**.

It can be rained on 4 hours after installation @ 68 F. Colder temperatures will increase this time.

If ST Primer gets wet during cure (rain, dew or fog), the surface will “bloom”, evidenced by white spots that must be ground off.

It must then be re-applied.

**NOTE:** Before using **ST Primer**, please refer to Safety Data Sheet (SDS). Ensure the same safe working methods are followed for all persons in the work area. Wear suitable protective clothing, butyl rubber or nitrile gloves, and safety goggles with side shields during mixing and application.

When **ST Primer** is applied in enclosed areas without natural ventilation, forced ventilation must be arranged. Avoid strong concentration of vapor as well as direct contact with skin or eyes.

If concentration exceeds recommended limits in SDS, a NIOSH approved respirator (OSHA 29 CFR 1910.134) is required.

Avoid direct contact with skin or eyes.

Uncured epoxies are corrosive, toxic or both. They may cause allergic reactions or hypersensitivity reactions.

Contact with skin – wash immediately with soap and water

Contact with eyes – rinse immediately with lots of water and seek medical attention

## Coverage

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Application rates should be adjusted to meet each project's specified requirements. Coverage rates are theoretical and do not take into account material loss due to surface porosity, project conditions and working methods.

- For Henry System Warranty and Gold Seal Warranty requirements, refer to appropriate approved Henry specification for application and coverage rate requirements.

## Clean-up

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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.

## Product contents / packaging size

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Part A 2 gal / 2 gal container

Part B 1 gal / 1 gal container

**Storage**

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One year in unopened containers stored between 50° F and 80° F under dry, ventilated conditions, and out of direct sunlight. Storing the material at a higher temperature may reduce its shelf life. Keep in an upright position and do not over stack.

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