

# HENRY®

The Professional's Formula For Success™

# 565 FloorPro™

## Self-Leveling Underlayment

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**Used to smooth and flatten interior surfaces, such as concrete, wood, ceramic tile and properly prepared adhesive residues on concrete, prior to the installation of floor coverings.**

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- Walkable in 2-3 hours
- Install ceramic tile in as little as 6 hours, other floor coverings in as little as 16 hours
- Installs up to 5" (12.7 cm) thick
- Can be tapered to meet existing elevations
- Use to level and smooth select interior substrates prior to installing floor coverings



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# HENRY® 565

## Self-Leveling Underlayment

### Description and Usage

Formulated from a blend of Portland cements and other hydraulic cements, HENRY® 565 is a self-leveling underlayment used to smooth and flatten interior surfaces, such as concrete, wood, ceramic tile and properly prepared adhesive residues on concrete, prior to the installation of floor coverings. Due to its unique leveling and drying characteristics, HENRY 565 allows floor covering installation to proceed in as little as 6 hours for ceramic tile and 16 hours for other floor coverings.

### Substrate Preparation

For each of the substrates listed below, acid etching, adhesive removers, solvents and sweeping compounds are not acceptable means for cleaning the substrate. Substrate and ambient temperatures must be a minimum of 50°F (10°C) for the installation of HENRY® products.

**CONCRETE:** All concrete substrates must be solid, structurally sound, thoroughly clean and free of oil, wax, grease, asphalt, latex and gypsum compounds, curing compounds, sealers and any contaminant that might act as a bond breaker. If necessary, mechanically clean the floor down to sound, solid concrete by shot blasting, grinding or similar. Over-watered, frozen or otherwise weak concrete surfaces also must be cleaned down to sound, solid concrete by mechanical methods. Sanding equipment is not an effective method to remove contaminants from concrete.

**ADHESIVE RESIDUES ON CONCRETE:** HENRY 565 also can be installed over non-water-soluble adhesive residue on concrete only. The adhesive must first be tested to make certain it is not water-soluble. Water-soluble adhesives must be removed mechanically down to clean concrete.

Non-water-soluble adhesives should be prepared to a thin, well-bonded residue using the wet-scraping technique as recommended by the Resilient Floor Covering Institute ([www.rfci.com](http://www.rfci.com)) to remove thick areas and adhesive build-up, as well as any areas that are weak or not well bonded to the concrete. Any existing patches below the adhesive must be removed completely.

**CERAMIC TILE:** HENRY 565 can be applied over clean, sound, solidly bonded ceramic tile. The tile must be roughened mechanically to remove the glaze. The tile must be clean, including the complete removal of existing dust, dirt, debris and any other contaminant that may act as a bond breaker. Substrate preparation must be by mechanical means, such as shot blasting.

**WOOD:** The wood subfloor either must be solid hardwood flooring; a minimum of 3/4" (19 mm) tongue-and-groove, APA-rated Type 1, exterior exposure plywood; or an approved OSB equivalent. The wood subfloor must be constructed according to prevailing building codes and must be solid and securely fixed to provide a rigid base free of undue flex. Any boards exhibiting movement must be re-nailed. The surface of the wood must be clean and free of oil, grease, wax, dirt, varnish, shellac and any contaminant that might act as a bond breaker. If necessary, sand down to bare wood. A commercial drum sander

can be used to sand large areas. Do not use solvents, strippers or cleaners. Vacuum all dust and debris. Open joints should be filled with HENRY® 549 FeatherFinish™ Underlayment Patch and Skimcoat or HENRY® 547 UniPro™ Universal Underlayment mixed with HENRY® 546 Feather Edge Additive. It is the responsibility of the installation contractor to ensure that the wood subfloor is thoroughly clean and properly anchored prior to the installation of any HENRY® material.

**NOTE ON ASBESTOS-CONTAINING MATERIALS:** 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.

Prior to application, use 1/2" weather stripping or similar to keep the HENRY 565 from flowing under cabinets or drywall, around plumbing or into adjacent rooms. Protect wall base and door moldings with painter's tape and plastic sheeting. Remove this course after the product has hardened (approx. 3 hours at 70°F/21°C).

### Recommended Tools

Mixing paddle, 5-gallon mixing drum (10-gallon mixing drum if extending the HENRY 565 with aggregate; see below), gauge rake, smoother, liquid measuring device (5 quarts / 4.7 L per 40 lb. / 18 kg bag), a 1/2" (12 mm) heavy-duty drill (min. 650 rpm), 1/2" (12.7 mm) weather stripping or similar, painter's tape, plastic sheeting and baseball or soccer shoes with non-metallic cleats. For smaller installations, a steel trowel can be used in place of the gauge rake and smoother.

### Priming

**NOTE:** HENRY® primers may need longer drying times with low surface temperatures and/or high ambient humidity. Do not install HENRY 565 before the primer has dried thoroughly.

**ABSORBENT CONCRETE:** Standard absorbent concrete and ceramic tile must be primed with HENRY® 564 FloorPro™ Underlayment Primer diluted 1:1 with water. Apply evenly with a soft bristled push broom. Do not use paint rollers, mops or spray equipment. Do not leave any bare spots. Brush off puddles and excess primer. Allow primer to dry to a clear, thin film (min. 3 hours, max. 24 hours).

Extremely absorbent concrete may require two applications of HENRY 564 to minimize the potential for pinholes forming in the HENRY 565. Make an initial application of HENRY 564 diluted with 3 parts water by volume. Let dry thoroughly (1 to 3 hours), and install a second application of HENRY 564 mixed 1:1 with water as stated above.

**WOOD AND ADHESIVE RESIDUE ON CONCRETE:** Prime with HENRY 564 at full strength (do not dilute). Apply directly to the prepared substrate with a short-nap or sponge paint roller, leaving a thin coat of primer. Do not use a push broom. Do not leave any bare spots. Brush off puddles and excess primer. Allow primer to dry to a clear, thin film (min. 3 hours, max. 24 hours).

For wood substrates, after priming, install 3.2 or 3.4 galvanized, expanded diamond metal lath mesh ("plaster lath") to the subfloor, stapling approximately every 6" (15.2 cm) to prevent the mesh from floating. Overlap adjacent pieces of mesh by approximately 1" (2.5 cm).

### Joints and Cracks

Under no circumstances should HENRY 565 be installed over any moving joints or moving cracks. All existing expansion joints, isolation joints and construction joints, as well as all moving cracks, must be honored up through the underlayment and flooring.

As needed, dormant cracks and dormant joints can be filled with HENRY 549 or HENRY 547 mixed with HENRY 546, following the instructions in each product's technical brochure.

However, please be advised that while dormant control joints and dormant cracks in the slab may be filled with HENRY 549 or HENRY 547 mixed with HENRY 546 prior to installing HENRY 565, this filling is not intended to act as a repair method that will eliminate the possibility of joints and cracks telegraphing. HENRY 549, HENRY 547 and HENRY 565 are non-structural materials and are, therefore, unable to restrain movement within a concrete slab. This means that while some dormant joints and dormant cracks may not telegraph through the HENRY® materials and up into the finish flooring, cracks will telegraph in any area that exhibits movement, such as an active crack, an expansion or isolation joint, or an area where dissimilar substrates meet. We know of no method to prevent this telegraphing from occurring.

## Mixing and Application

HENRY 565 is mixed one bag at a time. Mix each 40 lb. (18 kg) bag with 5 quarts (4.7 L) of clean water. Pour the water in the mixing drum first, and then add the HENRY 565 while mixing with a mixing paddle and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm). Mix thoroughly for approximately 2 to 3 minutes to obtain a lump-free mix. **Do not overwater!** Yellowish foam while mixing, or settling of the sand aggregate while placing, indicates overwatering.

HENRY 565 has a flow time of 10 minutes at 70°F (21°C). Pour the mix onto the floor, and spread with a gauge rake. Immediately smooth the material with a smoother. Work in a continuous manner during the entire self-leveling installation. Wear baseball or soccer shoes with non-metallic cleats to avoid leaving marks in the liquid HENRY 565.

## Thickness of Application

Install HENRY 565 at a minimum thickness of 1/8" (3 mm) over the highest point in the floor, which typically results in an average thickness of 1/4" (6 mm) or more over the entire floor. HENRY 565 can be installed up to 1 1/2" (3.8 cm) over large areas neat, and up to 5" (12.7 cm) with the addition of proper aggregate.

To match existing elevations, HENRY 565 can be tapered to as thin an application as the sand in the material will allow. If a true featheredge is needed, The W.W. Henry Company recommends using HENRY 549 or HENRY 547 mixed with HENRY 546 for transitions.

For areas with a thickness greater than 1 1/2" (3.8 cm), mix HENRY 565 with washed and well-graded 1/8" to 3/8" (3 to 9.5 mm) pea gravel. Please note that the aggregate size must not exceed 1/3 the depth of the pour. Mix the HENRY 565 with water first, and then add 1 part aggregate by volume, mixing until the aggregate is completely coated. Do not use sand. If the aggregate is wet, reduce the amount of water to avoid overwatering.

The addition of aggregate will diminish the workability of the product and may make it necessary to install a neat coat to obtain a smooth surface. Allow the initial application to dry for 12 to 16 hours, and then prime this layer with HENRY 564 mixed 1:1 with water. Allow the primer to dry (min. 3 hours, max. 24 hours) before installing the neat coat of HENRY 565.

## Wear Surface

HENRY 565 is not to be used as a permanent wear surface, even if coated or sealed. HENRY 565 must be covered by a suitable floor covering material, such as carpet, vinyl flooring, ceramic tile, etc.

## Installation of Flooring

HENRY 565 is walkable 2 to 3 hours after installation. Install moisture-insensitive tile, such as ceramic, quarry and porcelain, after a 6-hour cure. Allow a 16-hour cure for all other floor coverings. Drying time is a function of jobsite temperature and humidity conditions, as well as the installation thickness. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying.

## Notes

This product is intended for interior use over dry substrates only. Do not use in areas of constant water exposure or in areas exposed to permanent or intermittent substrate moisture, as this may jeopardize the performance of the underlayment and the floor covering. This product is not a vapor barrier, and will allow free passage of moisture. Follow the directives of the floor covering manufacturer regarding the maximum allowable substrate moisture content, and test the substrate prior to installing HENRY 565. Where substrate moisture exceeds the maximum allowed, The W.W. Henry Company recommends the use of ARDEX Moisture Control Systems. For further information, please refer to the ARDEX technical brochures at [www.ardexamericas.com](http://www.ardexamericas.com).

HENRY 565 can be used in areas exposed to intermittent topical moisture, such as bathrooms and kitchens.

Always install an adequate number of properly located test areas, including the finish flooring, to determine the suitability of the products for the intended use. 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.

Never mix with cement or additives other than HENRY® approved products. Observe the basic rules of concrete work. Do not install below 50°F (10°C) surface and air temperatures. Install quickly if the substrate is warm, and follow warm weather instructions available from the HENRY® Technical Service Department.

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

## Technical Data According To W.W. HENRY Quality Standards

All data based on a mixing ratio of 3.5 parts powder to 1 part water by volume at 70°F / 21°C and in accordance with ASTM C1708 as applicable. Physical properties are typical values and not specifications.

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<b>Mixing Ratio:</b>	5 quarts (4.7 L) of water per 40 lb. (18 kg) bag
<b>Approximate Coverage:</b>	22 sq. ft. per bag at 1/4" (2 sq. m at 6 mm) 44 sq. ft. per bag at 1/8" (4 sq. m at 3 mm) Coverage will vary depending on the texture of the surface being smoothed.
<b>Flow Time:</b>	10 minutes
<b>Initial Set (ASTM C191):</b>	Approx. 30 minutes
<b>Final Set (ASTM C191):</b>	Approx. 90 minutes
<b>Compressive Strength (ASTM C109/mod – Air cure only):</b>	4,100 psi (287.0 kg/cm <sup>2</sup> ) at 28 days
<b>Flexural Strength (ASTM C348):</b>	1,000 psi (70 kg/cm <sup>2</sup> ) at 28 days
<b>Walkable:</b>	2 to 3 hours
<b>Install Flooring:</b>	6 hours for moisture-insensitive tile, such as ceramic, quarry and porcelain; 16 hours for all other floor coverings
<b>VOC:</b>	0
<b>Packaging:</b>	40 lb. (18 kg) bag
<b>Storage:</b>	Store in a cool, dry area. Do not leave bags exposed to sun.
<b>Cleanup:</b>	Before the product dries, clean tools with a coarse, clean cloth dampened with warm, soapy water.
<b>Shelf Life:</b>	1 year, if unopened
<b>Warranty:</b>	HENRY® Standard Limited Warranty applies.

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