

## LVP Glue Down Installation Guide

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### Materials Required for Installation

Tape Measurer  
Square Ruler  
Chalk Line  
Utility Knife  
Hand/Seam Roller  
100lb Roller

### Acceptable Subfloors:

Happy Feet International will not warrant or accept responsibility of any kind for flooring failures related to the use of unacceptable substrates and surfaces. Any failure of the subfloor or flooring due to the subfloor is not the responsibility of Happy Feet International. **All subfloors must be tested for moisture and documented for warranties to be maintained.**

### Approved Substrates:

Concrete  
Portland Based Underlayments  
Terrazzo  
APA Approved Plywood  
Fiber Cement Underlayment  
Radiant Heated Subfloors (not exceeding 85°F (29°C))  
Properly Prepared VCT  
Properly Prepared Sheet Vinyl (single layer, fully adhered)

### Wood Subfloor

Wood Subfloors must be American Plywood Association (APA) rated subfloor grade as specified and warranted by the manufacturer. Wood subfloors are required to be primed (HF225 Primer). **All wooden subfloors require moisture testing along with documentation.**

### Gypsum Concrete

All Gypsum Concrete subfloors are required to have moisture testing and to be primed prior to installation (HF225 Primer). **All gypsum concrete subfloors require moisture testing along with documentation.**

## Concrete:

See Grade Levels below. All concrete subfloors require moisture testing (see "Moisture Testing" for further details). **All concrete subfloors require moisture testing along with documentation.**

## Grade Levels

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### Suspended

An acceptable suspended floor is a concrete or wood substrate with a minimum of 18" (460mm) of well-ventilated air space beneath it. Happy Feet International recommends that a moisture vapor barrier be placed on the ground below the air space.

### On-Grade

An acceptable on-grade floor is a concrete substrate in direct surface contact with the ground at the surrounding ground level. The concrete slab should be protected from moisture penetration and incorporate a permanent, effective moisture vapor retarder with a minimum thickness of 0.010 and a permeance of 0.1 per ASTM F710.

### Below-Grade

An acceptable below-grade floor is a concrete substrate partially or completely in contact with the ground below the average surrounding ground level. The concrete slab should be protected from moisture penetration and incorporate a proven moisture vapor barrier. The concrete slab should be protected from moisture penetration and incorporate a permanent effective moisture vapor retarder with a minimum thickness of 0.010 and a permeance of 0.1 per ASTM F710.

## Unacceptable Surfaces:

Cushion-back vinyl  
Laminate  
Any floating floor system  
Carpet

## Moisture Testing

All concrete slabs, both old and new, must be tested for moisture transmission using the Calcium Chloride Moisture Test according to ASTM F1869. Moisture vapor transmission should not exceed the recommended levels of between 3-5 lbs. per 1,000 sq. ft. in 24 hours. This test should be performed and documented prior to installation. Also test for relative humidity in concrete floor slabs using in-situ probes, which should be no more than 80% RH (HF9100) or 95% RH (HF9200) per ASTM F2170 before, during and after installation.

**\*These acceptable moisture readings are only applicable when using HF9100 Transitional Adhesive or HF9200 Spray Adhesive. A copy of the moisture testing should be secured and is required to file.**

## pH Levels

pH on concrete substrates must be between 7 and 9.

## Storage and Handling

Acclimate the flooring a minimum of 48 hours before installation in the area it is to be installed. Conditions between 65°F and 85°F (18°C and 29°C) are required before, during and after installation. Cartons should be evenly stacked no more than two high on a flat surface and away from any heating/cooling ducts or direct sunlight.

The floor must be clean, smooth, flat and dry. Remove all foreign substances such as wax, grease, dirt, construction marks and contaminants, and any substance or chemical that would interfere with a good bond. Avoid using sweeping compounds. Do not install over substrates that have been chemically cleaned. The flatness of wood subfloors or underlayment must not exceed on variation of 3/16" in 10 feet.

**Please Note:** If removal of existing resilient floor covering is required, follow all recommended Resilient Floor Covering Institute (RFCI) work practices at [www.rfci.com](http://www.rfci.com). Happy Feet International only recommends the use of Portland cement based products as a satisfactory patching or leveling compound for the installation of all Happy Feet International flooring products.

## Common Uses:

- Leveling Substrates
- Filling holes
- Filling cracks
- Embossing existing resilient floor, ceramic tile or VCT
- Leveling non water-soluble adhesives
- Filling saw cuts and/or construction joints

## WARNING:

For installation over old resilient floor coverings or when considering removing existing resilient floors, please be advised that these products may possibly contain asbestos fibers or crystalline silica. Please follow all recommended Resilient floor Covering Institute (RFCI) work practices at [www.rfci.com](http://www.rfci.com).

## Floor Preparation

The smoothness and cleanliness of concrete subfloors must meet or exceed the requirements of ASTM F710. Fill all holes and cracks with a latex fortified Portland cement based patching compound. Happy Feet International only recommends the use of latex fortified Portland cement based products as a satisfactory patching or leveling compound. The floor should be flat 3/16" in a 10 foot span.

**Happy Feet International requires priming porous floors with a Premium Acrylic Latex Primer (HF225 Primer) to prevent over absorption of adhesives, dust containment, and to insure a better bond of the adhesive to the subfloor/underlayment.**

Do not fill actual expansion joints or other moving joints with elastomeric fillers that are designed to absorb movement in concrete slabs. Cementitious underlayment, patches and resilient flooring installed across true expansion joints will often buckle or crack when the slabs move. Usually architects will specify expansion joint covers for the use with various floor coverings

## Adhesive Usage Instructions

Please refer to the label on HF9100 Transitional Adhesive/ HF9200 Spray Adhesive for installation instructions. **If our HF9100 Transitional Adhesive/ HF9200 Spray Adhesive is not used, then the warranty is voided.**

## Trowel Specification

Trowel dimensions are width x depth x spacing. Coverage is approximate and may vary depending on porosity of substrate and the angle at which the trowel is held.

Type of Installation	Trowel Size & Notch	Spread Rate
Over porous substrates (Vinyl Tile & Plank, Rubber Tile, Vinyl & Rubber Stair Treads)	1/16" x 1/16" x 1/16" Sq. 1.6mm x 1.6mm x 1.6mm Sq	250 sq. ft. per gal
Over porous substrates (Solid Vinyl Sheet Goods, Rubber Sheet Goods)	1/16" x 1/32" x 1/32" U 1.6mm x 0.8mm x 0.8mm U	350 sq. ft. per gal
Over non-porous substrates (Vinyl Tile & Plank, Rubber Tile, Vinyl & Rubber Stair Treads)	1/16" x 1/32" x 1/32" U 1.6mm x 0.8mm x 0.8mm U	350 sq. ft. per gal
Over non-porous substrates (Solid Vinyl Sheet Goods, Rubber Sheet Goods)	1/16" x 1/32" x 5/64" U 1.6mm x 0.8mm x 2mm U	400 sq. ft. per gal

**\*\*It is the installer's responsibility to apply the proper amount of adhesive for the job condition.**

## Start of Installation

- Inspection of flooring material prior to installation is required. It is the purchaser's responsibility to verify with the installer that they have received the correct product before the start of installation. Any defects, wrong product, or color should be immediately reported to the retail store from which the flooring was purchased before installation (within 24hrs of install). Happy Feet International will not be responsible for labor costs to repair or replace material with defects, wrong product, or color that were apparent before or noticed at the end of an installation. The job site and all flooring material and adhesive must be kept for 48 hours before, during and after installation between 65°F and 85°F (18°and 29°C).
- Floor must be clean, smooth, flat and dry before installation.
- Check the tongue and groove to assure it is free of debris or damage.
- To achieve maximum appearance, mix planks from two to three cartons from the same production.
- Tiles and planks may be cut with a small tile cutter or scored and snapped.

**DO NOT** use a damp cloth or damp mop on the new flooring for at least 14 days after the installation. This will allow planks/tiles to become "seated" in the adhesive and prevent excess moisture from interfering with the adhesive bond.

**Note:** Avoid exposure to direct sunlight. During peak sunlight hours, the use of blinds or curtains is required. Prolonged direct sunlight can result in discoloration and volatile temperature variations causing damage to the floor, which is not covered by Happy Feet International.

**The flooring receipt, all moisture/relative humidity testing documentation, and the professional installers receipt will be required to file a claim. If one should arise, please contact the original purchaser to complete a claim form. In the event that you have a flooring concern Happy Feet International will cover the cost of hiring an independent inspector, but if the inspection report comes back deemed that it is an installation error or onsite issue, the inspection fee will be charged back to the dealer/distributor/homeowner.**