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General Installation Instructions

***Happy Feet International will not pay any claim for product or labor if our adhesives are not used for original installation.*

Our adhesives are HF9100, HF9200 or HF525Z. One of these or a combination of these must be used for our warranty to be valid.

Important Pre-Installation Checks

- It is the installer's responsibility to verify that the product, color, pattern and quantity are all correct.
- Prior to installation, each plank should be carefully inspected in good natural light for any obvious visual defects.
- Never install defective product. If the product is incorrect or has any visual defects or damage, contact the retailer.
- Generally, Happy Feet will not be responsible for any visible defects after the flooring has been cut and/or installed.

Prior to Installation

- Follow all recommended acclimation instructions per Happy Feet warranty and installation guidelines.
- Cartons should be stored horizontally at all times. Protect carton corners from damage.
- Inspect the groove area, and remove debris that may prevent proper assembly of planks/tiles.

Moisture Testing & Mitigation

- Happy Feet requires documented moisture testing of all substrates prior to installation. Substrates must not exceed 3-5 lbs of moisture emission per 1,000 sq ft in a 24-hour period. (ASTM 1869 Calcium Chloride Moisture Test Standards)
- PH Levels must be between 7 and 9.
- Relative Humidity testing performed using in-situ probes should not exceed 80% relative humidity.
- Happy Feet requires the use of an approved moisture mitigating primer (HF525Z) under all glue down and loose lay applications. It is highly recommended that moisture mitigating primers be used under our floating floors as well.

Perimeter/Expansion Gaps

- A standard perimeter expansion gap of no less than $\frac{1}{4}$ inch must be maintained against all fixed vertical surfaces (e.g. walls, cabinets, sliding doors, island benches, plumbing fixtures, etc.).
- For installation over large areas or in between multiple rooms that exceed 30 ft in length or width, leave no less than a $\frac{1}{2}$ inch expansion gap. A trim, such as quarter round, can be used to cover this gap, ensuring the floor is not pinned to the substrate or vertical surfaces.

NOTE: For installations that require the floor to pass through multiple pinch-points, for example doorways and transitional areas from smaller passageways to larger rooms, consideration should be given to additional expansion allowance at these points.

Click Lock Installation Guide for Stabilicor® and LVT Click

Materials Required for Installation

Tape Measure
Square Ruler
Chalk Line
Utility Knife
Tapping Block
Rubber Mallet

Moisture Reading Device/Testing Method
Moisture Mitigating Primer – Recommended*

*Please note that Happy Feet International incorporates several different locking mechanisms. Please review each installation method prior to installation.

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. If excessive moisture readings exist, a moisture mitigation system, approved by Happy Feet, should be incorporated.**

Acceptable 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)
Moisture Testing**

**If excessive moisture readings exist, a moisture mitigation system, approved by Happy Feet, should be incorporated.

Wood Subfloor

Wood Subfloors must be American Plywood Association (APA) rated subfloor grade as specified and warranted by the manufacturer. **All wooden subfloors require moisture testing along with documentation.** If excessive moisture exists, a moisture mitigation system approved by HAPPY FEET INTERNATIONAL must be applied to insure peak product performance. **We recommend use of a moisture mitigating primer under ALL Happy Feet products.**

Concrete

See Grade Levels on next page. All concrete subfloors require moisture testing (see "Moisture Testing" for further details). All concrete subfloors require moisture testing along with documentation. If excessive moisture exists, a moisture mitigation system approved by HAPPY FEET INT. must be applied to ensure peak product performance. **We recommend use of a moisture mitigating primer under ALL Happy Feet products.**

Grade Levels

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.

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.

Unacceptable Surfaces

Cushion-Back vinyl
Laminate
Any floating system floor
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. **If excessive moisture exists, a moisture mitigation system approved by Happy Feet should be incorporated.**

pH Levels

pH on concrete substrates must be between 7 and 9.

Storage and Handling

Acclimate the flooring a minimum of 24-48 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 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.

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. **If excessive moisture exists, a moisture mitigation system approved by Happy Feet should be incorporated.**

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: EXISTING FLOORS

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. **No carpet of ANY type. Ceramic Tile, Hardwood, and VCT must be prepped with a Portland cement based patch or leveler. *All floors must be fully adhered and prepped prior to installation.**

Underlayment

If you choose to use an underlayment for products without attached pad. Happy Feet International requires a closed cell underlayment that is no more than 1.5mm in thickness. Happy Feet International recommends using Choice, Choice Plus, or Happy Step Underlayment. Please contact your Happy Feet International Representative for more information. **Do not use an underlayment under products with attached pad. Use of additional underlayment will VOID WARRANTY. Use of additional underlayment will result in locking mechanism breakage.**

Subfloor and Wall / Door Preparation

Note: DO NOT install cabinets on top of Stabilicor products. The surface beneath the floor must be sufficiently prepared in advance to guarantee a successful installation of the flooring.

- Fill any low spots in the subfloor greater than 3/16 inch in 10 foot span with a Portland cement leveling compound.
- Ceramic tile and embossed flooring will require skim coating with a Portland based patch to avoid bottom up pattern telegraphing.
- Remove any existing floor molding. Removal of wall baseboards is optional as quarter round can be installed to avoid baseboard removal.
- Undercut doorjamb so the 1/4 inch expansion space is maintained, allowing the LVP to slip under doorjamb/case molding.
- Sweep the subfloor clean. The floor must also be free of all contaminates.

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, all flooring material, and adhesive must be kept between 65 F° and 85 F° (18° C and 29°C) for 48 hours before, during and after installation.
- 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.

IMPORTANT: Maintain the 1/4 inch space around walls, cabinets, pipes, toilet flanges and any obstacle in the floor. When installing in areas greater than 30' x 30', Happy Feet recommends maintaining a 1/2" expansion space. Quarter round or baseboard molding will cover this expansion space. Make sure that you have a transition break every 30ft in either direction.

For plank installation, staggering the end joints a minimum of 6 inches is required.

For tile installation, staggering the end joints a minimum of 3 inches is required.

Note: Do not install four corners together, as this will not provide a stable installation.

Clicking Planks / Tiles Together

To click the end joint of the plank/tile together, click the short side of the plank/tile vertically into the previous one by pressing it by hand and rolling it with a hand roller or seam roller to ensure a fully compressed tight fit.

To click the length joint of the plank/tile together, place long joint together, lifting slightly to engage lock. Rotate downward, clicking together for a tight fit. Use a small hand roller or seam roller to press/lock the compression fit end joint.

If there are any gaps, we recommend using a small scrap piece of plank/tile with the lock on the edge. Lock groove-to-tongue or tongue-to-groove for this application. Lock the scrap piece to the area requiring tapping, and lightly tap the edge of the material. This will bring the tile edges tight together.

Cut the plank/tile by scoring through the top wear layer with a utility knife then snap the plank/tile across the score.

Install adjoining rows as you did the first; one piece at a time. Holding the plank/tile at a slight angle, place it against the profile in the first row. Rotate the plank/tile down to secure the length joint assuring there are no gaps along the joint.

The adjoining planks/tiles are aligned by sliding the long joint into position, shifting it to properly match the end joint against the previous plank/tile. Repeat until you reach the final row of material.

To install the final row of planks/tiles, you will usually need to cut them. We recommend the following: lay a panel on top of the last row installed. Lay another plank/tile against the edge of the wall. Mark the plank/tile underneath.

Cut the plank/tile through the wear layer and snap along the score. Install the last row leaving ample expansion space.

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 on-site issue, the inspection fee will be charged back to the dealer/distributor/homeowner.

Click Lock Installation Guide for Stabilicor® Plus & Stabilicor® Elite

Materials Required for Installation

Tape Measure
Square Ruler
Chalk Line
Utility Knife
Tapping Block
Rubber Mallet

Moisture Reading Device/Testing Method
Moisture Mitigating Primer – Recommended*

***Please note that Happy Feet International incorporates several different locking mechanisms. Please review each installation method prior to installation.**

Acceptable Subfloors

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Acceptable Substrates

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Portland Based Underlayments
Terrazzo
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Moisture Testing**

****If excessive moisture readings exist, a moisture mitigation system, approved by Happy Feet, should be incorporated.**

Wood Subfloor

Wood Subfloors must be American Plywood Association (APA) rated subfloor grade as specified and warranted by the manufacturer. **All wooden subfloors require moisture testing along with documentation.** If excessive moisture exists, a moisture mitigation system approved by HAPPY FEET INTERNATIONAL must be applied to insure peak product performance. **We recommend use of a moisture mitigating primer under ALL Happy Feet products.**

Concrete

See Grade Levels on next page. All concrete subfloors require moisture testing (see "Moisture Testing" for further details). All concrete subfloors require moisture testing along with documentation. If excessive moisture exists, a moisture mitigation system approved by HAPPY FEET INT. must be applied to ensure peak product performance. **We recommend use of a moisture mitigating primer under ALL Happy Feet products.**

Grade Levels

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.

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.

Unacceptable Surfaces

Cushion-Back vinyl
Laminate
Any floating system floor
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. **If excessive moisture exists, a moisture mitigation system approved by Happy Feet should be incorporated.**

pH Levels

pH on concrete substrates must be between 7 and 9.

Storage and Handling

Acclimate the flooring a minimum of 24-48 hours before installation in the area it is to be installed. Optimum storage conditions of flooring material is between 65 F° and 85 F°. 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 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.

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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: EXISTING FLOORS

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. **No carpet of ANY type. Ceramic Tile, Hardwood, and VCT must be prepped with a Portland cement based patch or leveler. *All floors must be fully adhered and prepped prior to installation.**

Underlayment

If you choose to use an underlayment for products without attached pad. Happy Feet International requires a closed cell underlayment that is no more than 1.5mm in thickness. Happy Feet International recommends using Choice, Choice Plus, or Happy Step Underlayment. Please contact your Happy Feet International Representative for more information. **Do not use an underlayment under products with attached pad. Use of additional underlayment will VOID WARRANTY. Use of additional underlayment will result in locking mechanism breakage.**

Subfloor and Wall / Door Preparation

Note: DO NOT install cabinets on top of Stabilicor products. The surface beneath the floor must be sufficiently prepared in advance to guarantee a successful installation of the flooring.

- Fill any low spots in the subfloor greater than 3/16 inch in 10 foot span with a Portland cement leveling compound.
- Ceramic tile and embossed flooring will require skim coating with a Portland based patch to avoid bottom up pattern telegraphing.
- Remove any existing floor molding. Removal of wall baseboards is optional as quarter round can be installed to avoid baseboard removal.
- Undercut doorjamb so the 1/4 inch expansion space is maintained, allowing the LVP to slip under doorjamb/case molding.
- Sweep the subfloor clean. The floor must also be free of all contaminates.

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. For optimum performance of flooring and adhesive products, the job site conditions should be maintained between 65 F° and 85 F°, before, during and after installation.
- 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.

IMPORTANT: Maintain the 1/4 inch space around walls, cabinets, pipes, toilet flanges and any obstacle in the floor. When installing in areas greater than 30' x 30', Happy Feet recommends maintaining a 1/2" expansion space. Quarter round or baseboard molding will cover this expansion space. Make sure that you have a transition break every 45ft in either direction.

For plank installation, staggering the end joints a minimum of 6 inches is required.

For tile installation, staggering the end joints a minimum of 3 inches is required.

Note: Do not install four corners together, as this will not provide a stable installation.

Clicking Planks / Tiles Together

To click the end joint of the plank/tile together, click the short side of the plank/tile vertically into the previous one by pressing it by hand and rolling it with a hand roller or seam roller to ensure a fully compressed tight fit.

To click the length joint of the plank/tile together, place long joint together, lifting slightly to engage lock. Rotate downward, clicking together for a tight fit. Use a small hand roller or seam roller to press/lock the compression fit end joint.

If there are any gaps, we recommend using a small scrap piece of plank/tile with the lock on the edge. Lock groove-to-tongue or tongue-to-groove for this application. Lock the scrap piece to the area requiring tapping, and lightly tap the edge of the material. This will bring the tile edges tight together.

Cut the plank/tile by scoring through the top wear layer with a utility knife then snap the plank/tile across the score.

Install adjoining rows as you did the first; one piece at a time. Holding the plank/tile at a slight angle, place it against the profile in the first row. Rotate the plank/tile down to secure the length joint assuring there are no gaps along the joint.

The adjoining planks/tiles are aligned by sliding the long joint into position, shifting it to properly match the end joint against the previous plank/tile. Repeat until you reach the final row of material.

To install the final row of planks/tiles, you will usually need to cut them. We recommend the following: lay a panel on top of the last row installed. Lay another plank/tile against the edge of the wall. Mark the plank/tile underneath.

Cut the plank/tile through the wear layer and snap along the score. Install the last row leaving ample expansion space.

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 on-site issue, the inspection fee will be charged back to the dealer/distributor/homeowner.

LVP Glue Down Installation Guide

***Happy Feet International will not pay any claim for product or labor if our adhesives are not used for original installation.*

Our adhesives are HF9100, HF9200 or HF525Z. One of these or a combination of these must be used for our warranty to be valid.

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 (525z 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 (525z 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

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. 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.

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 (525z 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.

LVP Loose Lay Installation Guide

***Happy Feet International will not pay any claim for product or labor if our adhesives are not used for original installation. Our adhesives are HF9100, HF9200 or HF525Z. One of these or a combination of these must be used for our warranty to be valid.*

Materials Required for Installation

Tape Measurer	Moisture Reading Device/Testing Method
Square Ruler	Moisture Mitigating Primer
Chalk Line	
Utility Knife	
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. All subfloors must also be primed with approved Moisture Mitigating Primer/Moisture Vapor Barrier.**

Acceptable 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 or HF525Z Moisture Mitigating 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 or HF525Z Moisture Mitigating Primer). **All gypsum concrete subfloors require moisture testing along with documentation.**

Concrete

All concrete subfloors require moisture testing along with documentation. All concrete subfloors are required to be primed (HF225 Primer or HF525Z Moisture Mitigating Primer).

Grade Levels

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 requires that a moisture vapor barrier/primer 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. **Happy Feet requires HF525Z Moisture Mitigating Primer.**

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. **Happy Feet requires HF525Z Moisture Mitigating Primer.**

Unacceptable Surfaces

Cushion-Back vinyl
Laminate
Any floating system floor
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. 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
Moisture Mitigating Primer

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.

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 all subfloor(s) with a Premium Acrylic Latex Primer (HF225 Primer/HF525Z) to prevent over absorption of adhesives, dust containment, and to ensure 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.**

Residential and Commercial Installation Requirements

(a) Floor must be clean, smooth, flat and dry before installation.

(b) 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 (if gluing down) must be acclimated for 48 hours before, during and after installation between 65°F and 85°F (18°and 29°C).

Glue Down Application

Happy Feet requires a full spread glue application partnered with a moisture mitigating primer (HF525Z) for optimum product performance. We offer our HF9100 transitional pressure sensitive adhesive for trowel on applications or our HF9200 spray adhesive for time sensitive applications.

For all glue down applications, Happy Feet International requires priming porous floors (Plywood, OSB, Luan, Gypcrete) with a Premium Acrylic Latex Primer (HF225 Primer or HF525Z Moisture Mitigating Primer) to prevent over absorption of adhesives, dust containment, and to insure a better bond of the adhesive to the subfloor/underlayment.

Perimeter / Partial Glue Application

Flooring should be laid directly into a well defined band of adhesive approximately 12" in width against all perimeter walls. Open transition areas with no wall to lay against should be fixed with 12" wide band of adhesive outlining the area in which the floor will be installed.

Along with the necessary perimeter band of adhesive, it is recommended that a grid pattern of adhesive (example Tic Tac Toe pattern) be applied to ensure that the entire area is securely bonded so as to limit the possibility plank movement in the areas away from the perimeter. It is recommended that all high traffic areas, areas with heavy rolling loads and commercial job applications, be installed using the full spread method. Make sure each tile/plank is fit tightly to the next piece. Firm and tight is correct, overly tight will lead to compression and later peaking joints when the compressed planks try to return to normal length or width.

Please refer to the label on HF9100 Transitional Adhesive/HF9200 Spray Adhesive for installation instructions.

Loose Lay Applications (No Adhesive)

For Loose Lay applications, Happy Feet recommends that the area to be installed does not exceed 150 sq. ft. without the use of adhesive or high quality double sided carpet tape around the perimeter. Happy Feet Loose Lay products should be cut tight to the perimeter walls and or surrounding trim. Once the initial row of planks are secured to the beginning wall, continue laying additional planks while insuring each plank is fit tightly to the next. Use special care when cutting in the final row to keep all adjacent planks firmly in place.

Start of Installation

1. Decide how you want the floor to run. Plank products usually look best when they run the length of the room. This is all a matter of preference, though, so feel free to lay some planks in different directions to see which way looks better.
2. To avoid narrow plank widths or short plank lengths near the walls and doors, it is important to do some pre-planning. Using the width of the room, calculate how many full boards will fit into the area and how much space remains that will need to be covered by partial planks. Divide the remaining space by two to calculate the width of the partial planks. Do the same along the length.
3. The planks or tiles should be installed from one corner of the room working your way out toward the other wall. Planks or tiles should be laid tight against the wall.
4. Using a utility knife and straight edge, score the top surface of the plank then use more pressure to cut all the way through.
5. Start the next row. Planks should be installed randomly, making sure end joints are staggered and adjoining planks have end joints at least 6" (150mm) from the previous row's end joint. Keep planks and tiles tight to the surrounding floor.
6. When fitting around door jambs or other irregular objects first make a pattern using heavy paper or poster board. Trace the pattern onto the flooring and cut with a utility knife.
7. If a seam is not tight you can easily lift the planks and reposition.

NOTE: Product Size and Tolerance is 0.0625 inches per linear foot.

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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.

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