



Installation Instructions Luxury Vinyl Plank & Tile

Lifestyles - GLUE DOWN

Lifestyles Loc - EZ LOCK

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Attention:

Before starting installation, read all instructions thoroughly. Should any questions arise, please contact your local **Trinity Surfaces** Floors dealer or phone **Trinity Surfaces** Hardwoods direct at 888 551-0888. All installation instructions must be followed for warranties to be considered valid.

Pre-inspect the jobsite prior to delivery of the floor to ensure the structure is suitable for Luxury Vinyl flooring installation using the following guidelines

Owner/Installer responsibility

1. Inspect all materials carefully prior to installation. Warranties do not cover materials with visible defects once they are installed. Installation constitutes acceptance.
2. Inspect the Luxury Vinyl flooring in well lighted conditions to ensure proper identification of any potential problems. Carefully inspect the flooring for grade, color, finish, and quality. If the flooring is not acceptable, contact **Trinity Surfaces** Floors Distributor and arrange shipment of replacement material. Defective product will be replaced. Material that is subjectively viewed as unacceptable but falls within **Trinity Surfaces** Floors grading norms will not be replaced
3. Prior to installation of any flooring, the installer must ensure the job site and sub-floor conditions meet the requirements specified in these instructions.
4. Luxury Vinyl flooring installation should be the last item completed on the construction project. Limit foot traffic on the finished Vinyl plank or tile.

Storage and Handling

Handle and unload Luxury Vinyl flooring with care. Store in a dry place; Make sure to provide at least a four-inch space (a dry pallet that provides enough clearance under boxes for proper air movement). Prior to delivery of flooring, outside doors and windows must be in place. All concrete, masonry, plastering, and other "wet" work must be complete and thoroughly dry. Roofing and the exterior shell of the structure must be finished and weather tight with doors and windows installed. The wall coverings should be in place and all painting completed—except for the final coat on the base molding. Room temperature and humidity should be consistent with year-round conditions for at least one week prior to installation. When possible, install base molding after floor installation is complete HVAC MUST BE RUNNING WITH A ROOM TEMPERATURE OF BETWEEN 60° F TO 80° F AND RELATIVE HUMIDITY OF BETWEEN 30 AND 55%. Product and adhesives must be acclimated to a living condition environment for 48 hours prior to installation.

*ATTENTION: Exposure to sunlight and other heat sources may affect the performance and installation of the floor.

Pre-Installation Inspection

Visual Inspection

The first inspection is visual and basic. Is there water in the building? Are there uncovered Southwest facing windows or sliding glass doors?

Climate Control

If heating and or air conditioning with proper humidity controls are in operating condition, they need to be operating. If it is not possible for the permanent system to operate, a temporary system that provides proper temperature and humidity conditions must be in place and remain in place until permanent climate and humidity control is in place. Temperature of 60-80F must be maintained.

Install Flooring Last:

Luxury Vinyl should be the last trade in the house (before base boards are installed). All concrete, masonry, plastering/drywall, texturing, and painting primer coats are completed. Do not install in direct sunlight.

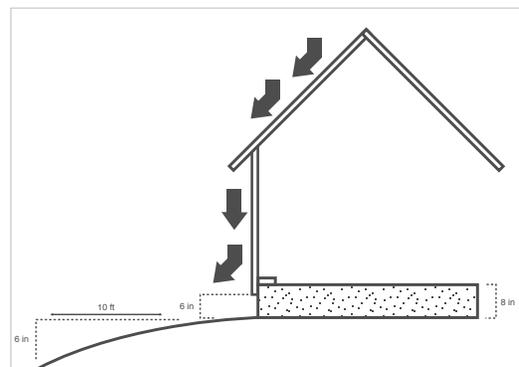
Covering the floor while wet trades are in the house is not recommended. Moisture can pull into the paper or be trapped under the surface of materials used to cover the floor. Paper coverings also allow dents and scratching to occur. Coverings held in place for more than 24 hours by blue tape can damage the floor. The adhesive in tapes contain Phthalates /plasticizers that have the ability to penetrate floor finishes and bond with the finish at the molecular level presenting a risk of pulling/damaging the finish when the tape is removed.

Trinity Surfaces recommends that built in cabinets and built in furniture be installed before installation of the floor. This prevents damage to the flooring and makes potential flooring repairs simpler to perform.

Exterior Checks

Is exterior soil elevation 6" below edge of flashing? Does exterior slope away from foundation at a rate of 6" drop in 10' for soft-landscaped areas and 3" drop in 10' for hard-paved areas? Proper drainage away from the structure is absolutely critical to ensure weather tight conditions and crucial to proper hardwood flooring performance.

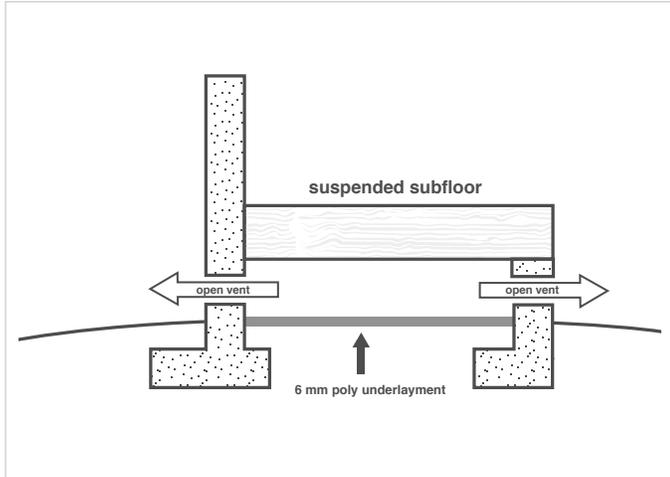
If structure is near a hill, the lot should be graded with a swale to move moisture off the lot and prevent it from coming in contact with the foundation.



Crawl Space Ventilation

Crawl space earth (or thin concrete slab) should be covered 100 percent by a vapor retarder of black polyethylene (minimum 6 mill) or any recommended puncture-resistant membrane, such as Class C meeting ASTM D1745. Check local codes for any additional requirements.

Size of available vents should equal 1.5% of the square footage within the crawl space. Relative humidity should be consistent with interior of home. Moisture content of sub-floor should not vary more than a 2% MC from the top of the subfloor to the bottom.



It may be necessary to install temperature/humidity activated exhaust fans to create more movement in the crawl space.

Uncontrolled humidity and moisture in crawl space will lead to mold and damage to the structure as well as damage the luxury vinyl floor. In these events a contractor specializing in dehumidifying systems will need to be contracted to keep crawlspace humidity within proper norms. This is more likely in high humidity areas.

Ensure that clothes driers are properly vented to the outside of the foundation.

Check for signs of plumbing, both pressurized and nonpressurized/ drain leaks.



For crawl spaces without ventilation openings, vapor retarder joints must overlap a minimum of 6 inches and be sealed or taped. The vapor retarder should also extend at least 6 inches up the stem wall and be attached and sealed to the stem wall. Continuously operated humidity control and perimeter wall insulation or conditioned air supply and insulation must be provided.

Basement Moisture & Humidity Control

Basements should be completely weather tight and proper drainage away from the foundations walls in place to insure that basement remains dry.

1. Rain gutters must be in place to carry moisture away from the house. French drains are recommended, and basement walls should be properly sealed.
2. Relative humidity of basements should not be more than 10% higher than the upper floors.
3. Humidity control of the basement is vital to help control mold and prevent damage to the structure and hardwood flooring.
4. Basement walls should be inspected for cracks and excessive moisture content.
5. Drains must be placed at basement windows
6. Direct sprinklers and irrigation systems away from the foundation. Sprinklers spraying the foundation edge can lead to moisture intrusion into structure. Drip irrigation systems for plant beds is recommended.



Subfloor Moisture Testing-Concrete

Concrete must be tested for moisture, regardless of the age of the concrete. See requirements under moisture testing. Moisture tests should be conducted on the slab after it has been cleaned of all foreign materials

Calcium Chloride: ASTM F1869

Industry standards specify that the slab should not be emitting more that 3 lbs. per 1,000 square feet per 24 hour period. Carefully follow the instructions in the test kit to ensure that you get accurate results.

NOTE: The slab emissions can vary based on soil humidity and room temperature. Consult adhesive manufacturer's directions for the moisture abatement system they recommend.

Humidity Probe & Digital Meter: ASTM F2170

Widely used in Europe, this test determines the amount of humidity in the slab. This is an effective way to determine a slab's potential for emitting moisture. Follow all meter manufacturers guidelines for performing testing.

CAUTION: Post Tension slabs require special care to avoid cutting cables in slab. Cutting post tension cables can cause serious structural damage and cause possible fatalities

NOTE: Refer to adhesive manufacturers required testing methods. Adhesive manufacturer's offer moisture warranties that may be conditional. Follow their directions closely to ensure compliance and full warranty coverage.

Subfloor Moisture Testing-Wood

Probe-type (pin) meters are considered the best method of testing. Remember: the top and bottom of the subfloor should vary no more than 2%. Wood substrates must have a moisture reading of no more than 10% when using Lignomat, Tramax, Delmhorst, or equivalent moisture meter.



Lignomat-Versa Tec can function as a pin-less meter (measuring at two depths), a pin meter, can test ambient air relative humidity, and as a concrete relative humidity meter. Versa Tec has pin and pin-less capability, two pin set ups, both with insulated pins, as well as being capable of conducting concrete humidity testing.

Subfloor Preparation Concrete

New concrete slabs require a minimum of 60 days drying time before covering them with a Luxury Vinyl floor. The slab must be fully cured. Slab must be comprised of Portland-based mix with 3,000 P.S.I. of compressive strength. Glue-down application over gypsum or lightweight concrete mixes of lesser strength is not acceptable. (see floating installation section for installation over lightweight substrates). Remove all paint, oil, existing adhesives, wax, grease, dirt, sealers, and curing compounds. Do not use solvent-based strippers under any circumstances because residual solvents can prevent the satisfactory bonding of the vapor barrier and adhesive systems. It is important to ensure a long lasting bond between the adhesive, the concrete, and the boards.

All subfloors must be clean, smooth and flat within 1/8" in a ten foot radius. Dust, scale, old adhesive, and asphalt cut-back adhesive must be removed. **CAUTION** test cut-back adhesives for asbestos content. If the cut-back contains asbestos, contact an asbestos abatement company for professional removal. The surface must be free of paint, grease, drywall, curing/sealing compounds, existing resilient floors, engineered hardwood floors, wax, oil, alkali and any other foreign material that would negatively affect the bonding of the adhesive.

Use sanding system with 20 grit # 3-1/2 open-face paper to remove loose, flaky concrete. For heavy surface contamination, it may be necessary to bead-blast the concrete surface.

Subfloor tolerance for a flat and level surface is 3/16" within a 10' radius and 1/8" in a 6'. These are widely accepted industry standards. Use a straight edge to determine if sub-floor requires grinding or filling.

NOTE: A quarter is approximately 1/16" of an inch thick and can be used as a thickness gauge. Grind high spots and fill low spots with Portland-based filler.

NOTE: Use the filler recommended by the adhesive manufacturer.

All subfloor patching and leveling should be done with a quality water resistant, non-shrinking Portland cement patch. Concrete floor must be smooth and flat to prevent telegraphing imperfections in the concrete. *NOTE: Be sure to use Portland based patch and levelers on Portland based slabs and Gypsum for Gypcrete. Follow all manufactures guidelines for those products.*

Wear appropriate NIOSH designated dust mask to reduce risk of dust inhalation. Wear proper eye protection and avoid prolonged contact with eyes and skin. In the event of eye irritation flush with water for 15 minutes and seek medical attention!

CAUTION: ASBESTOS

State and Federal agencies have determined that asbestos is a respiratory carcinogen. Avoid sanding or scraping of old vinyl, linoleum and VCT as they may contain asbestos. Take proper precautions and contact an asbestos abatement company to remove any old vinyl or vinyl tile floors containing asbestos. Cut-Back adhesive and other types of adhesives can also contain asbestos.

Do not sand, sweep, dry or wet scrape, mechanically chip, bead blast, or pulverize existing resilient flooring, the felt, lining, paint, black asphalt cutback adhesives or other existing adhesives. These products could contain asbestos

fibers or crystalline silica. Breathing dust from these sources increases your risk of cancer and respiratory diseases. If you smoke and are exposed to asbestos fibers you are at greater risk of serious damage to your health. If you are not sure that the product being removed is asbestos free, assume that the product contains asbestos or crystalline silica. Regulations in your area may require you to have the material tested to determine if it contains asbestos. Check the Resilient Floor Coverings Institutes' recommendations for removal of existing resilient floor coverings.

Chemical adhesive removal products must not be used to prepare the slab. Use of such chemicals will void the warranty on all **Trinity Surfaces** Luxury Vinyl®

Trinity Surfaces Luxury Vinyl® is not responsible for any movement in expansion joints in concrete slab, nor any performance issues related to the subfloor.

Subfloor Preparation Wood

Wood subfloors must have a minimum of 18" between the bottom of the joists and the surface of the soil. Soil to be covered with 6-8mil black plastic as vapor barrier. Plastic must be overlapped at joints by a minimum of 8 inches and fully taped with a high quality moisture proof duct tape. Size of available vents should equal 1.5% of the square footage within the crawl space. Relative humidity should be in balance with interior of home. Moisture content of sub-floor should not vary more than 2%MC from the bottom of the sub-floor to the surface.

1. Joists should be 16" inch on center with minimum subfloor thickness of 5/8" joist spacing of 16" – 18" should be 3/4" .

2. It may be necessary to install temperature/humidity activated exhaust fans to create more movement in the crawl space. Uncontrolled humidity and moisture in crawl space will lead to mold and damage to the structure as well as the LVT floor. In these events a contractor specializing in dehumidifying systems will need to be contracted to keep crawlspace humidity within proper norms. This is more likely in high humidity areas.

3. Ensure that clothes driers are properly vented to the outside of the foundation. Check for signs of plumbing, both pressurized and non-pressurized/drain leaks.

4. Joists should be 16" inch on center with minimum subfloor thickness of 5/8" joist spacing of 16" – 18" should be 3/4" .

5. Basements should be completely weather tight and proper drainage away from the foundations walls in place to insure that basement remains dry.

6. Solid Board Subflooring should be 3/4" x 5 1/2" (1" x 6") group 1 dense softwoods (SYP, Doug Fir, Larch, etc.), No. 2 common, kiln-dried. Solid board subflooring should consist of boards no wider than 6 inches, installed on a 45-degree angle, with all boards ends full bearing on the joists and fastened with a minimum 8d rosin-coated or ring-shanked nails, or equivalent. Solid board subflooring that is uneven at edges should be repaired and sheeted with 1/2" (15/32, 11.9mm) Baltic Birch 1 plywood subfloor panels, 4' x 8' sheets and should be installed running cross-truss/joist. Glue top and bottom layer together with construction adhesive and screwing in to the truss/ joist system every twelve inches. Additionally nail (ring shank) or staple layers together on a minimum 12" grid pattern. Place 6mm birch underlayment on surface.

7. Plywood / OSB Subfloors

- Truss/joist spacing of 16" (406cm) o/c or less, the industry standard for single-panel subflooring is a minimum of 5/8" (19/32" , 15.1mm) CD Exposure 1 plywood subfloor panels or 23/32" OSB Exposure 1 subfloor panels, 4' x 8' panels.

- Truss/joist spacing of more than 16", up to 19.2" (488mm) o/c, the standard is a minimum 3/4" (23/32", 18.3mm) T & G CD Exposure 1 Plywood 4' x 8' sheets glued and mechanically fastened.

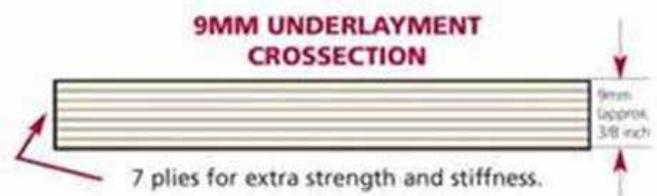
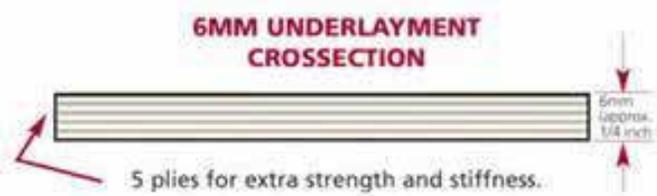
- Truss/joist spacing of more than 19.2" (488mm) o/c up to a maximum of 24" (610mm) requires a minimum 7/8" T & G CD Exposure 1 plywood subfloor panels, 4' x 8' sheets, glued and mechanically fastened, or nominal 1" OSB Exposure 1 subfloor panels glued and mechanically fastened – or two layers of subflooring*. Alternatively cross bracing between truss/joists in accordance with truss/joist manufacturer's recommendations and with local building codes. Some truss/joist systems cannot be cross braced and maintain stability.

- Sheet surface with Birch ply, **Trinity Surfaces** Luxury Vinyl® does not warrant our products installed on subfloor grade plywood, particle board, O.S.B, Luan or Maranti types of underlayment. *NOTE: Trinity Surfaces adhesives will adhere to subfloor grade plywood and to OSB, however the amount of movement in those products will affect the product and telegraphing issues commonly occur with this type of installation.*

8. Make any repairs necessary to the existing subfloor prior to installing underlayment.

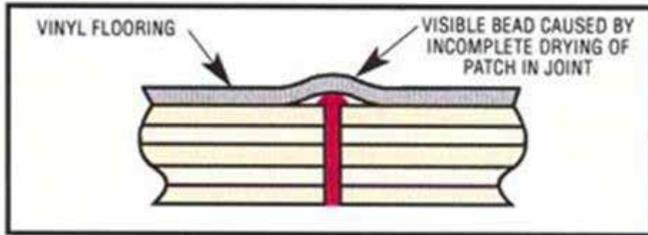
9. See underlayment manufacturers specification/instructions for proper installation of product.

10. Stagger plywood end-joints and loosely butt edges per installation panel manufacturers installation instructions, fastener holes and seams should be filled with a polymer modified patch such as Ardex Feather Finish or Mapei Fine Finish. These products are applied in a thin skim coat per manufacturers



instructions. Make sure to fill all end and side joints nail holes and dents in the underlayment to prevent transfer to the surface. Allow to dry completely.

Note: Remember, the patch may be 1/4 inch deep or more in the joint between two panel edges and it will not dry as quickly as a surface patch. When a latex adhesive is applied to the underlayment, some of the water is absorbed into the wood causing it to expand slightly. This expansion will force wet patch out of the joint, forming a bead that can be seen through the vinyl.

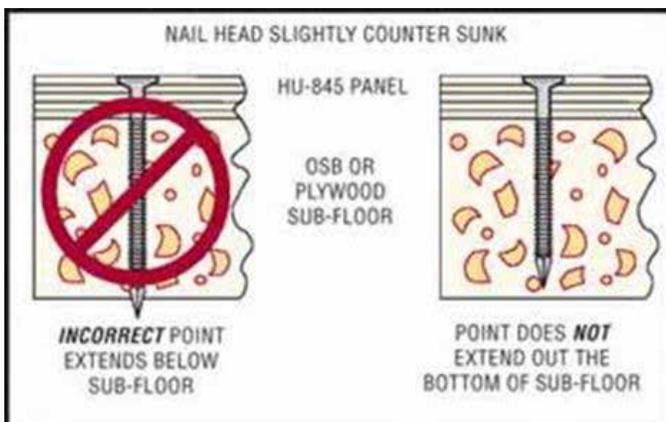


11. Lightly butt plywood underlayment panel edges together. Do not force panels together, but do not leave a gap. Leave a minimum gap of 1/4 inch and a maximum gap of 1/2 inch between the plywood underlayment panel edges and the walls for expansion.

12. Cut plywood underlayment panels as necessary and lay out factory edges to factory edges. Layout any edges with jobsite cuts towards the wall.

13. Cutting the Plywood Underlayment . Make any long straight cuts from the underside of the plywood underlayment panel using a circular power saw with a fine toothed blade. Adjust the blade to extend not more than 3/8 inch through the plywood underlayment to minimize splintering.

14. Selecting the Plywood Underlayment Fasteners Use plated ring shank underlayment nails with a 3/16 inch diameter head or double coated chisel point staples with a 1/4 inch maximum crown. The fastener length should be selected so that the point will not extend through the bottom side of the subfloor. Do not use uncoated, cement coated, or rosin coated fasteners as they may contribute to staining. Ensure the panel is in firm contact with the subfloor. Always have your body weight on the panel being fastened.



15. All fasteners should be countersunk slightly below the surface of the new underlayment. Adjust air pressure on air staplers to a minimum to avoid staple blow through. Fill with feather patch approved for such use, allow to dry and sand nail holes and joints to prevent telegraphing through surface of vinyl. Avoid over-sanding and cupping of joints.

16. Once the patch is dry, re-sand all areas with a power belt sander. If necessary, patch again, allow to dry, and re-sand with a power belt sander. Proceed with the installation according to the instructions of the vinyl flooring manufacturer and adhesive manufacturer. Keep the underlayment clean and dry until the vinyl flooring is installed. Cover with protective paper if necessary.

Clean the Subfloor

After all prep work is completed, sweep and/or vacuum the subfloor. Dust and dirt can affect the adhesive or vapor barrier's ability to adhere to the slab.



Other Substrates:

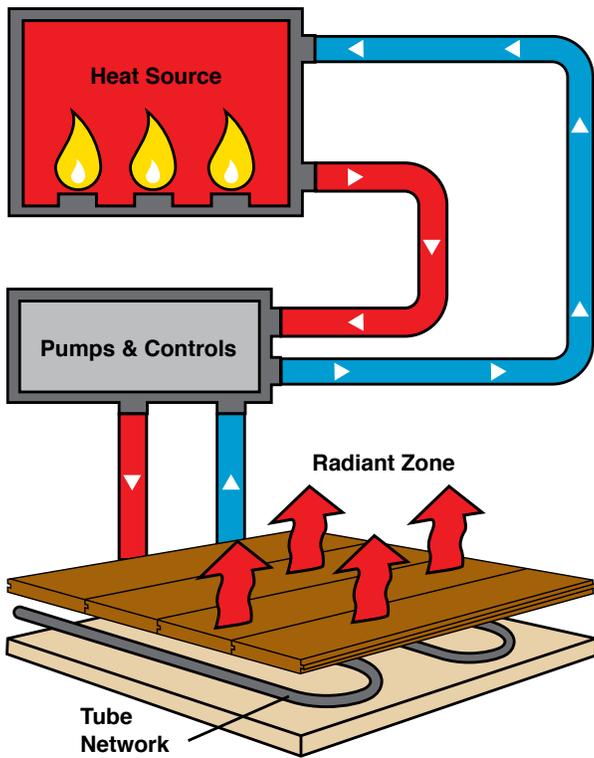
Quarry Tile, Terrazzo and Ceramic Tile. Any embossing or grout joints need to be filled with a Portland based cementitious patch. Substrates must be firmly attached to subfloor. **Trinity Surfaces** Floors makes no warranties in regards to performance or suitability of use of any subfloor or substrate.

LVT & Radiant Heat:

1. The heating system must be 1 1/2" below the surface layer of the concrete slab.
2. In floor heating systems must be water based, low temperature, and must have be designed to prevent surface temperature of the floor from exceeding 80 degrees F. All systems that are part of a wood subfloor construction must use a San Simeon Collection product designed to float and a Eternity Premium underlayment pad or equivalent.
3. 2-3 weeks prior to the installation the thermostat must be set at 70 F and then at 85 F for 3 days. The home should be aired out briefly every day to allow the excess humidity from the thermal mass to exhaust out of the structure.
4. The lightweight concrete moisture content must not exceed 1.5% as measured with a Tramax Moisture Encounter meter prior to installation. Use of **Trinity Surfaces** One when done per instructions will enable the floor to be glued down to Gypcrete.
5. Lightweight concretes must be Portland based and be rated at 3,500 psi
6. Electric Radiant Heat systems are not approved for use under **Trinity Surfaces** Luxury Vinyl
7. Passive Radiant Heat systems are not suitable for use with **Trinity Surfaces** Luxury Vinyl.
8. Radiant Heat system must have failsafe capability to ensure surface temperatures do not exceed 80°F.

Subfloor level tolerances listed previously, also apply to radiant heated subfloors.

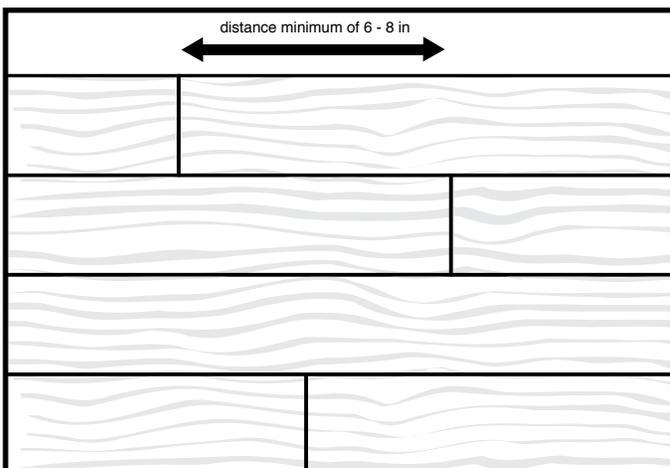
NOTE: Area rugs placed over radiant heat slab will create heat retention in the floor. This may result in that area exceeding optimum temperature, and causing slightly larger gaps and minor distortions to the floor under the rugs.



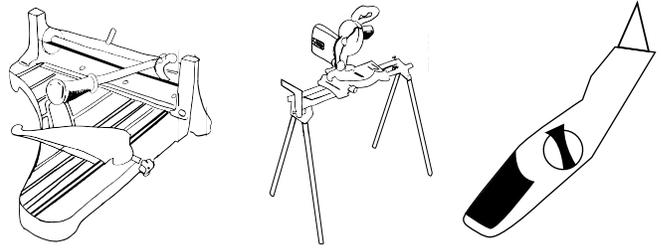
Installation Plank - Town & County, Castle & Cottage, Sierra Madre, El Dorado

Before installing any material, plan the layout of the plank or tile joints so they fall at least 6" away from the subfloor/underlayment joints. Do not install over expansion joints.

1. Plank ends should be staggered, randomly to avoid a cluster or stair stepping of end joints. Varying the length of the starter plank will give the appropriate stagger for that row.

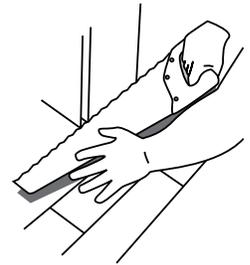


2. **Trinity Surfaces** recommends pattern scribing, with utility knife cutting power miter saw or vinyl guillotine cutter for plank.

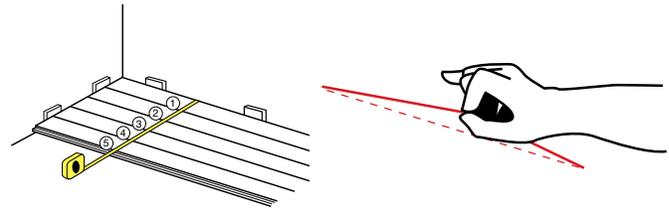


3. Accurately measure the room to determine the center line, adjust this line to accommodate for a balanced layout and then move this line 2' - 3' from the starting wall.

4. Undercut All Door-Jambs/Moldings Remove all shoe and base molding to ensure adequate expansion space. Use scrap piece of flooring to establish height of cut. Make allowances for adhesive or underlayment thickness when establishing height of cut.



5. Measure the equivalent of four to five rows, mark subfloor at both ends of run and snap a chalk line. Spread adhesive to chalk line. Repeat this process on all subsequent rows of material throughout the balance of installation.



6. Spread adhesive and set tile or plank into the adhesive while avoiding any sliding of the tile or plank.

7. Clean up all adhesive residue from surface of floor as you proceed. Do not allow adhesive to dry on the surface of the planks.

8. Ensure the planks are installed with the arrows imprinted on the back of the tile or planks laying in the same direction. If there are no arrows the material is non-directional, and can be installed in either direction.

9. If starting from a center line, begin laying **Trinity Surfaces** Luxury Vinyl along the starting line and work back to the starting wall.

10. After completion of the installation, the floor must be rolled with a minimum 100 lb. 3-section floor roller in both directions.

11. Cover all exposed areas. Use appropriate trim pieces along all walls, cabinets, etc. Use appropriate transition pieces in doorways or where **Trinity Surfaces** Luxury Vinyl meets other flooring.

12. Do not clean the floor for 48 hours after installation.

13. After 48 hours, damp mop with well wrung out sponge mop to remove residue and clean with **Trinity Surfaces** Trueclean.

ATTENTION! Exposure to direct sunlight and other heat sources may affect the performance of the floor

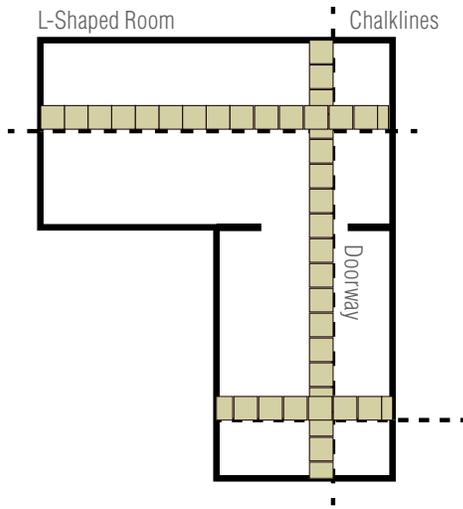
Installation Tile – Hermosa Stone

1. Before installing any material, plan the layout of the plank or tile joints so they fall at least 6" away from the subfloor/underlayment joints. Do not install over expansion joints.

2. Tile cannot be installed using the same layout techniques as plank. Tile must begin from the center of the room. This will allow plenty of space to work outward to the walls to ensure a symmetrical pattern.

3. Establish the center point in the room by marking the center point of all four walls. Snap chalk lines between the center points of opposite walls. Make sure there perfectly square and adjust as necessary.

4. Loose lay a row of tile along the center lines in both directions. If you have an unbalanced edge from one side to the other adjust your centerline to maintain balance. Avoid having one edge with very thin tile and the other very wide. If using Bostik TruColor Polyurethane Grout, make sure you include spacers in planning layout.



5. Trinity Surfaces recommends pattern scribing, with utility knife cutting or vinyl guillotine cutter for cutting tile.

6. Spread adhesive and set tile into the adhesive while avoiding any sliding of the tile in the adhesive.

7. Clean up all adhesive residue from surface of floor as you proceed. Do not allow adhesive to dry on the surface of the planks.

8. Hermosa Stone is non directional (there are no arrows), and can be installed in either direction.

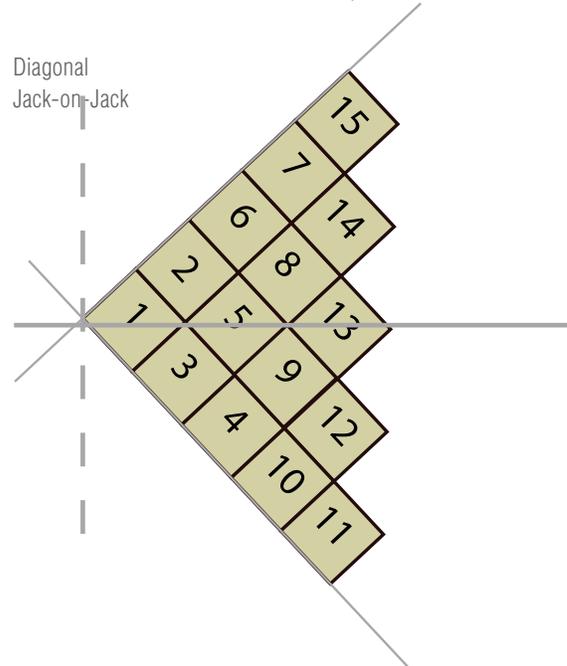
9. After installation has begun, begin laying Trinity Surfaces Luxury Vinyl along the starting line and work back to the starting wall.



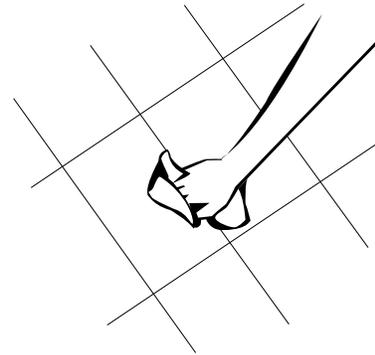
10. After completion of the installation, the floor must be rolled with a minimum 100 lb. 3-section floor roller in both directions.

11. Cover all exposed areas. Use appropriate trim pieces along all walls, cabinets, etc. Use appropriate transition pieces in doorways or where Trinity Surfaces Luxury Vinyl meets other flooring.

12. If installing Hermosa Stone on a 45° degree angle establish grid lines that allow the floor to be laid out in a balanced pattern.



13. When grouting with Bostik TruColor only spread 8 to 10 sq. ft. at a time and clean up with sponge per Bostik instructions. Do not use any other maintenance (Trinity Surfaces TrueClean) products on the floor for 48 hours.



14. After 48 hours, damp mop with well wrung out sponge mop to remove residue and start maintenance with Trinity Surfaces Trueclean and terry cloth mop.

Trinity Surfaces LUXURY VINYL ADHESIVE SYSTEMS

Sealer

- Trinity Surfaces 1 LVT Sealer Primer
- Trinity Surfaces 2 LVT Primer Adhesive
- Trinity Surfaces 3 LVT Adhesive
- Trinity Surfaces 4 LVT Adhesive

Trinity Surfaces Luxury Vinyl, Primer Sealer & Adhesive Systems

Primer

Trinity Surfaces 1 LVT - Primer

Primer for Lightweight Concrete / Gypcrete with 3500 psi rating (using a foam roller)

Moisture Barrier up to 8 lbs. on Calcium Chloride or 85% RH (when using # 22 Trowel (7/64" x 5/64")):

As a primer over epoxy sealers

As a primer over radiant heat, lightweight concrete, Gypcrete

Used prior to any approved leveling compound (Use filler compatible with subfloor construction type)

FOR USE WITH:

Trinity Surfaces 3 Adhesive

Trinity Surfaces Standard 4 Adhesive

Description:

Trinity Surfaces 1 Primer is a pure acrylic-based

sealer for flooring installation. It does not contain any solvents, isocyanates, or other harmful materials. It is, therefore, Ozone and environmentally safe, is certified as "very low emissions", and is certified "green". Trinity Surfaces 1 Primer lowers the moisture levels from a humid subfloor to an acceptable level for flooring installation and to bridge minor cracks in the subfloor.

Trinity Surfaces 1 Primer spreads easily, creates a dust free surface, has superior coverage, and dries very quickly.



Pre-Installation:

A successful installation requires proper preparation of the subfloor. Read and understand all applicable guidelines for subfloor moisture, and layout of flooring. All flooring to be installed must meet the flooring requirements before the floor is installed.

Subfloor:

Prior to installation, the subfloor must be sound, dry, clean, free of any adhesives, resistant to pressure, and its tension checked according to applicable installation guidelines. It must be solid and sound, flat, permanently dry, clean, free of chips, indentations and anti-adherents, as well as resistant to pressure and tension. Moisture content of all floors must be measured before installation. Subfloors must be below 8 lbs./24hrs/1,000 sq. ft. using the Calcium Chloride Test, or less than 85% RH using the in-situ test. Prior to installation, the subfloor must

Subfloor Preparation:

The condition of the subfloor will determine which type of mechanical treatment is required (e.g. wire brushing, sanding, grinding or shot blasting). Dust, paint, curing compounds, sealers, residual adhesives, or other surface pollutants MUST be removed. Clean the surface with an industrial vacuum cleaner, tack or damp mop floor before application. Cracks and gaps must be treated prior to application of primers, sealers, leveling compounds, and/or adhesives.

Procedure:

Shake before use and apply sealer undiluted with appropriate applicator. Make sure sealer is spread evenly. Do not exceed the maximum coverage. Higher temperatures will speed up the drying time.

Limitations:

When using non-Trinity Surfaces products in conjunction with Trinity Surfaces primers, sealers, or adhesives, Trinity Surfaces denies any and all responsibility for any problems and/or damages without prior written approval from Trinity Surfaces. exposure, see MSDS sheet for information. Do not dilute primer/sealer or mix with other products.

Features:

Dries in less than 2 hours, Contains no solvents, Contains no VOC Nonflammable, Ozone friendly, Cleans with water, Bridges cracks. Warning: not freeze/thaw stable.

Benefits:

Cleans with warm water and soap, Easily applied (trowel or roller method) Good penetration of subfloor, Dries quickly, Higher temp will shorten drying time, Suppresses minor cracks in concrete slabs, No risk of sensitization.

Long Term Features:

Improves bonding of Trinity Surfaces 3 and Trinity Surfaces Standard 4 adhesives, Moisture barrier up to 8lbs or 85% RH (when applied with #22 trowel Suitable for radiant heat systems, No health hazards

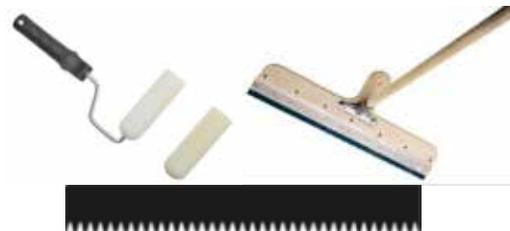
Approved Subfloors:

Concrete slabs, High moisture concrete slab up to 8lbs/24hrs/ 1,000SF and 85%RH, Lightweight concrete / Gypcrete with 3500 psi rating Contains no VOC, Epoxy sealers (100% solid, cured)

Approved Applicators:

Primer: Foam or Short Nap Roller (up to 500 sf/gal)

Sealer: #22 trowel 7/64 inch x 5/64 inch (up to 80sf/gal)



Drying Time:

2 hours or until clear

Temperature During Installation:

50° to 90°F

Relative Humidity During Installation:

30% to 80%

Color:

Cream

PH Value of Concrete:

Below 12.4

Water Vapor Transmission (ASTM E-96):

0.118 grams/hour *m²

0.58 lbs./24 hr. ft² inHg

Permeance (ASTM E-96):

0.27 grams/24h *

0.41 grams/h *ft² in Hg

Storage:

ABOVE 32°F, NOT FREEZE/THAW STABLE

Shelf Life:

12 months in original, unopened jug.

Trinity Surfaces 2 LVT Sealer

Moisture barrier up to 18 lbs. on Calcium Chloride or 97% RH In-Situ Probe Test (using foam roller with max coverage of 140 sf per gallon.

OR

Moisture barrier up to 25 lbs. on Calcium Chloride or 100% RH In-Situ Probe Test (using #22 trowel with max coverage of 70 sf per gallon.

Contains no water, solvents or VOCs USE WITH

Trinity Surfaces 2 Adhesive, lightweight concrete spale, Gypcrete

Description:

Trinity Surfaces 2 Sealer is a two component epoxy reaction-resin based sealer for flooring installation over high-moisture subfloors. **Trinity Surfaces 2 Sealer** will lower moisture levels from a high-moisture subfloor to an acceptable level, and will bridge minor cracks in the subfloor.

Trinity Surfaces 2 Sealer spreads easily, and creates a dust free surface for your flooring installation. **Trinity Surfaces 2 Sealer** increases the bonding of applied primers, leveling compounds and/or adhesives.



Pre-Installation:

A successful installation requires proper preparation of the subfloor. Read and understand all applicable guidelines for subfloor moisture, and layout of flooring. All flooring to be installed must meet the flooring requirements before the floor is installed.

Subfloor:

Do not apply **Trinity Surfaces 2 Sealer** onto a visibly damp or wet surface. Examine concrete sub floor for color, cleanliness, porosity and pre-existing residues PRIOR TO installation. Check the concrete subfloor for any contaminants and follow installation guidelines for proper subfloor preparation. It must be sound, permanently dry, clean, free of old adhesive or adhesive residue, as well as resistant to pressure and tension. Moisture content of all floors must be measured before installation.

Subfloor Preparation:

The condition of the subfloor will determine which type of mechanical treatment is required (e.g. wire brushing, sanding, grinding or shot blasting). Dust, paint, curing compounds, sealers, residual adhesives or other surface pollutants MUST be removed. Clean the surface with an industrial vacuum cleaner, tack or damp mop floor before application. Cracks and gaps must be treated prior to application.

Mixing of Components:

Lid contains the hardener. Pierce all the way through the plastic disc in center of lid and the bottom of the lid using a long screwdriver or similar tool. Let the hardener flow into the lower part of the bucket. Remove the lid, and using a mixing paddle, mix both for at least 3 minutes using an electric drill with less than 300 rpm until an even color is reached. Mix slowly using the correct mixing paddle to avoid trapping air. Make sure to mix along wall and bottom-part of the container as well. Temperature of both components should be at least 50 °F before mixing. Empty the entire contents of the pail onto floor immediately after mixing to prevent sealer from heating up and drying in the pail.

Installation Procedure:

After mixing, apply, undiluted, to the subfloor using the approved applicator. Make sure sealer is spread evenly and up to the perimeters for a successful installation. Do not exceed the maximum coverage.

Foam Roller Application for subfloor moisture up to 18lbs/24hrs/1,000SF (calcium chlorite test) or 97% RH (in-situ probe), spread **Trinity Surfaces 2 Sealer** over no more than 140 SF/gal

#22 Trowel Application for subfloors with a moisture content up to 25lbs/24hrs/1,000SF (calcium chlorite test) or 100% RH (in-

Limitations:

When using non-Trinity Surfaces products in conjunction with Trinity Surfaces primers, sealers, or adhesives, Trinity Surfaces denies any and all responsibility for any problems and/or damages without prior written approval from Trinity Surfaces. Sealer will not prevent moisture damages from hydrostatic pressure, underground springs, compromised vapor barriers underneath the slab, damaged water pipes, sinks, icemakers, faulty plumbing, flooding, etc.

Features:

Works under any type of flooring, Seals slabs with any moisture content
Contains no solvents, Contains no VOC, Contains no water, High solids content, Ozone friendly, Freeze/thaw stable Contains no isocyanates.

Benefits:

Low odor, High spread rate, Spreads easily, Excellent penetration of subfloor
Higher temp and will shorten drying time, CAUTION Watch pot life during installation.

Long Term Features:

Resistant against aging

Improves bonding of urethane based adhesives

Improves bonding of polymer adhesives

Moisture barrier up to 18lbs. or 97% RH w/roller

Moisture barrier up to 25 lbs. or 100% RH w/trowel

Suitable for radiant heat systems

Approved Subfloors:

Concrete Slabs, Wet Concrete Slab up to 25lbs/24hrs/1,000SF and 100% RH Stone, Terrazzo

Approved Applicators: Foam Roller: up to 140 sf/gal #22 Trowel: 7/64" x 5/64" (up to 70 sf/gal)



Drying Time:

12-18 hours, completely cured after 7days

Temperature During Installation:

50° to 90°F

Relative Humidity During Installation:

30% to 80%

12

Color (Hardener):

Yellow

Pot Life:

Approx. 25 min at 70°F (21°C)

Ph value of Concrete:

Up to 14

Water Vapor Transmission (ASTM E-96):

0.012 grams/hour * m2

0.06 lbs/24 h * ft2 inHg

Permeance (ASTM E-96):

0.026 grams/24h * m2 mmHg

0.04 grams/h * ft2 inHg

Storage:

Above 14°F

Adhesives

Trinity Surfaces 3 LVT Adhesive

For wet lay installation (wet set) using XTR1 1/16" x 1/16" x 1/16" trowel.

OR

For dry installation (pressure sensitive / releasable / dry set) using #9 - 1/32" x 1/16" x 1/32" trowel

Long open time (wet set = 1hr., dry set = 2hrs.).

For use with Trinity Surfaces Primer or Trinity Surfaces 2 Sealer.

Can be used over cutback mastic stained concrete (when used with Trinity Surfaces 2 Sealer)

Description:

Trinity Surfaces 3 Adhesive can be used w
Luxury Vinyl (excluding San Simeon EZ Loc).
tensile strength, and a very long open time. T
installation methods can be installed using
the wet lay method, or even the traditional
drier pressure- sensitive type of installation.
It can also be used in a wet lay installation
on a concrete slab, when installing over
existing non-absorbent flooring. Trinity Sur
3 Adhesive can be applied directly over
Trinity Surfaces 1 Primer or Trinity Sur
Trinity Surfaces 3 is non-hazardous, contains no
VOC, is certified as "very low emission" by
an independent third party laboratory, and
is eligible for LEED points.



Pre-Installation:

A successful installation requires proper preparation of the subfloor. Read and understand all applicable guidelines for sub floor moisture, and layout of flooring. All flooring to be installed must meet the flooring requirements before the floor is installed.

Subfloor:

Prior to installation, the subfloor must be checked according to applicable installation guidelines. It must be sound, flat, permanently dry, clean, free of indentations and adhesive removers, as well as resistant to pressure and tension. Moisture content of all floors must be measured before installation

Subfloor Preparation:

Concrete Subfloors – The condition of the sub floor will determine which type of mechanical treatment is required (e.g. wire brushing, sanding, grinding or shot blasting). Dust, paint, curing compounds, sealers, residual adhesives or other surface pollutants MUST be removed. Clean the surface with an industrial vacuum cleaner, tack or damp mop floor before application. Cracks and gaps must be treated prior to application of primers, sealers, leveling compounds, and/or adhesives with a concrete filler unless they are expansion joints. Substrate must be level to 3/16 inches within 10 feet. Heated subfloors (radiant heat) must be primed.

Wood subfloors must be covered with kiln-dried Baltic birch underlayment plywood such as Halex Baltic Birch, Integrawood IntegraPly, Mooreland Ultraply XL underlayment panels, or equivalent. 5/8" subfloors should also be covered with 9mm- 3/8 / 7 ply, and 3/4" subfloors covered with 6mm- 1/4"/5 underlayment panels or equivalent. 5/8" subfloors should also be covered with 9mm/ 7 ply and 3/4" subfloors covered with 6mm/5 ply both Baltic Birch or equivalent. **Trinity Surfaces** Luxury Vinyl® does not warrant our products directly installed to the above subfloors nor do we accept the use of particle board, O.S.B, Luan or Maranti types of underlayment.

Installation Procedure:

Spread the adhesive with the appropriate notched trowel at a 45 degree angle in order to avoid excessive adhesive thickness. Observe the appropriate flash time (if applicable). Lay the flooring into the adhesive, correctly position it and press down firmly. Ensure good adhesive transfer by checking the back of the flooring. Roll flooring approx. 15-30 min after installation with a 75-100 lbs. roller. Push down raised edges approx. 30-60 min after installation.

A. Wet Lay (wet set): Use a XRT1 -1/16"x1/16"x1/16" trowel for all general installations.



B. Dry Lay (dry set - pressure sensitive/releasable): Use a #9 - 1/32" x 1/16" x 1/32" trowel for dry-lay / pressure sensitive installation.



Limitations:

When using non-**Trinity Surfaces** products in conjunction with **Trinity Surfaces** primers, sealers, or adhesives, **Trinity Surfaces** denies any and all responsibility for any problems and/or damages without prior written approval from **Trinity Surfaces**. In case of accident, injury, spill or exposure, see MSDS sheet for information.

Trinity Surfaces 3 adhesive will maintain its integrity and performance even when higher levels of moisture are present. While adhesive can withstand up to 8#/24 hrs./1,000 SF (Calcium Chloride Test) and 85% RH (in-situ probe) of moisture, it does not qualify as a moisture inhibitor. **Trinity Surfaces 2** must be used Please see below for recommended sealers if a moisture barrier is required.

Features:

LEED qualified, Contains no chlorinated solvents, Contains no solvents Contains no VOC, Nonflammable, Ozone friendly, Certified green Certified very low emission, CAUTION - not freeze/thaw stable.

Benefits:

Long open time, Spreads easily, Higher temp will shorten drying time No risk of sensitization.

Long Term Features:

Resistant against aging, Suitable for radiant heat systems (when **Trinity Surfaces 1** is used to prime Concrete / lightweight concrete / Gypcrete thermal mass),. No health hazards.

Approved Flooring:

Trinity Surfaces Collections Town & Country, Castle & Cottage, El Dorado, Sierra Madre Hermosa Stone.

NOTE: Not suitable for use with San Simeon EZ Loc

Approved Subfloors:

Concrete - cutback mastic stain (well bonded, negative for asbestos) Concrete – clean, dry, flat

- OSB (underlayment grade) see Hallmark Installation Instructions. (requires Baltic Birch on top, filled and sanded).
- Plywood (underlayment grade) see Hallmark Installation instructions (requires Baltic Birch on top, filled and sanded). Dried leveling compounds, structurally sound and suitable for use as glue down surface, Radiant heat NOTE: Hallmark will stick to both osb and plywood. However, both subfloors will move and the texture of their surfaces will telegraph through the floor. This is not considered a manufacturing defect.

Flash Time:

Wet Lay: 5-25 min at 70°F (21°C)

Dry Lay: up to 60 min at 70°F (21°C)

Relative Humidity During Installation:

30% to 80%

Color:

Cream 12 months in original, unopened pail

PH value:

Below 12.4

Storage:

Above 32°F, Caution not freeze/thaw stable

Shelf Life:

24 months in original, unopened container

Open Time:

Wet Lay: up to 60 min at 70°F (21°C)

Dry Lay: up to 2 hours at 70°F (21°C)

Approved Primers:

Trinity Surfaces 1 Primer

Approved Sealers:

Trinity Surfaces 1 Primer Trinity Surfaces 2 Sealer

Approved Trowels:

Wet Lay / Wet Set: 1/16" x 1/16" x 1/16" (up to 170 sf/gal)

Dry Lay / Pressure Sensitive – Releasable : 1/32" x 1/16" x 1/32" (up to 250 sf/gal)

Drying Time:

Approx. 24 hours

Clean Up:

Soap and water

Temperature During Installation:

50° to 90°F

Standard 4 LVT Adhesive

FOR USE OVER

Trinity Surfaces -- 1Concrete, Light Weight Concrete, Gypcrete Baltic Birch or Equivalent Wood Substrate

Not For Use Over Radiant Heat

Description:

Trinity Surfaces Standard 4 is a highly specialized flooring adhesive specifically designed for Luxury Vinyl Flooring. It has very high shear strength and is very installer friendly due to its long open time. Trinity Surfaces Standard 4 contains no VOC's and due to its green properties is eligible for LEED.



Pre-Installation:

Proper preparation of the subfloor is required for a successful installation. Please read all the guidelines instructions for the adhesive before proceeding with the installation. Follow Hallmark's Glue Down Installation Instructions for proper subfloor moisture readings, layout, and application of flooring materials. Subfloor: Prior to installation, it's imperative that the subfloor is

checked according to industry guidelines. It must be solid, sound, flat, dry, clean, free of indentations, voids, anti-adherents, as well as resistant to tension and pressure. Moisture content must be measured before proceeding with the installation.

Subfloor Preparation:

Depending on the subfloor condition, a mechanical treatment may be necessary to meet industry standards. Dust, paint, residual adhesives or other surface materials must be removed prior to installation. It's recommended that the subfloor be cleaned with a vacuum and all cracks and gaps be filled with a Portland based cementitious patch with the exception of expansion joints. Levelness must be 3/16" in 10 feet and radiant heated subfloors must be primed with Trinity Surfaces 1 Primer.

Installation Procedure:

Spread the adhesive with the appropriate notched trowel at a 60 degree angle in order to avoid excessive adhesive thickness. Observe the appropriate flash time. Lay the flooring into the bed of adhesive and press down firmly into place. Roll flooring approximately 15-30 minutes after installation with a 100 lbs. roller. Push down raised edges 30-60 minutes after installation.

Limitations:

When using other than Trinity Surfaces products in conjunction with Trinity Surfaces primers, sealers, or adhesives, Trinity Surfaces denies any and all responsibility for any problems and/or damages without prior written approval from Trinity Surfaces. In case of accident, injury, spill or exposure, see MSDS sheet for information.

While Trinity Surfaces Standard 4 Adhesive can withstand up to 5#/24 hrs./1,000 SF (Calcium Chloride Test) of moisture, it does not qualify as a moisture inhibitor. If a moisture inhibitor is required, Trinity Surfaces recommends the used of Trinity Surfaces 1 Primer (up to 8#/24 hrs./1,000 sf (Calcium Chloride Test and 85% RH), when applied with #22 trowel and maximum coverage of 80 sq. ft. per gallon.

Trinity Surfaces Standard 4 Properties:

Cure Time until Normal Traffic – approximately 24 hrs., Clean Up – soap and water, Temperature Range During Installation – 50° – 90° F Relative Humidity Range During Installation: 30%-80%

Color:

Cream

Storage :

Above 32°F, not freeze/thaw stable

Features:

LEED qualified, Contains no solvents , Contains no VOC, nonflammable Ozone friendly , PVA-dispersion base cleans with water.

Benefits:

Long open time , Spreads easily (higher temp will shorten drying time) No risk of sensitization Spreads easily Very low odor

Long Term Features:

Resistant against aging, No health hazards

Approved Flooring:

Trinity Surfaces Collections. Town & Country, Castle & Cottage, El Dorado, Sierra Madre Hermosa Stone

NOTE: Not suitable for use with San Simeon EZ Loc

Approved Subfloors:

Concrete - cutback mastic stain (well bonded, negative for asbestos) Concrete – clean, dry, flat OSB (underlayment grade) see Trinity Surfaces Installation Instructions. (requires Baltic Birch on top, filled and sanded). Plywood (underlayment grade) see Trinity Surfaces Installation instructions (requires Baltic Birch on top, filled and sanded). Dried leveling compounds, structurally sound and suitable for use as glue-down surface

NOTE: Trinity Surfaces will stick to both OSB and plywood. However, both subfloors will move and the texture of their surfaces will telegraph through the floor. This is not considered a manufacturing defect.

Flash Time:

Wet Lay: 10-20 min at 70°F (21°C)

Open Time:

Wet Lay: 20 – 40 min at 70°F (21°C)

Approved Primers/Sealers:

Trinity Surfaces 1 Primer (not suitable for installation over Trinity Surfaces 2 Sealer)

Approved Trowels:

#1 Trowel: 1/16" x 1/16" x 1/16" (up to 170 sf/gal)



Drying Time:

Approx. 24 hours

Clean Up:

Soap and water

PH value of:

Below 12.4

Storage:

Above 32°F, not freeze/thaw stable

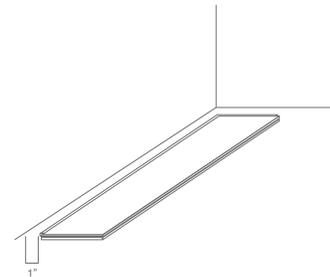
Shelf Life:

12 months in original, unopened pail

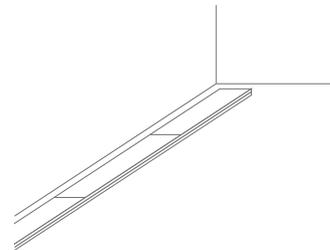


All jobsite prep instructions from earlier portions of installation instructions apply.

1. EZ Loc can be installed over existing floor coverings that are firmly attached to subfloor, clean, and level. NOTE: EZ Loc cannot be installed over carpet.
2. Standard expansion space should be factored at 1/4" and this will suffice for a floor that does not exceed 40' in span or width. Larger floors can be accommodated with additional expansion space but can be problematic.
3. Find areas in the floor where an expansion break can be planned for a large width / span floor.
4. Select a starting wall (Tip: Select the longest wall in the room and install left to right, starting in the left hand corner. NOTE: Start one inch from the wall until first three rows assembled and then push in place against 1/4" to 1/2" spacers depending on size of span and width.

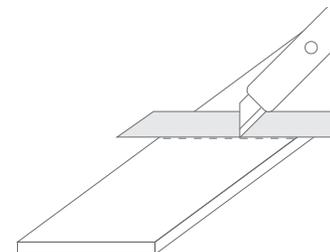


5. Install first rows by interlocking the ends of each plank in a tight fashion.

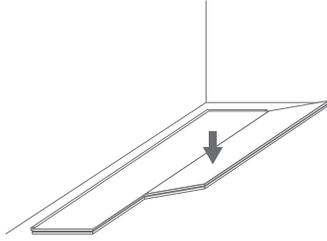


NOTE: Use blocks and sides and end of planks. Example the starting corner/end should have a 1/4" expansion shim (identical to sides). The cut at the other does not require a shim. Simply cut that end to the proper amount for expansion.

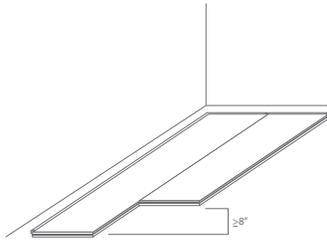
6. To cut the end of the plank, use a straight edge and a utility knife. Simply score and snap. A cutoff saw or a vinyl guillotine cutter will serve as well. A miter saw or vinyl guillotine can be used as well.



7. Use piece remaining from cut at end of row and use as a starter board elsewhere in the installation. Do not start a row with a piece shorter than 7" in length.



8. The staggered end / offset should not be less than eight inches.



9. Anchor down the first two rows, by placing full boxes of material on the rows to prevent movement during installation.

10. Continue with installation of third row using approximately a 36" to 40" piece and continue using the same method of installation. NOTE: When tapping the ends of the planks together, do not use a cut piece of plank as it will scratch and damage the edge of the plank being installed. Always use a tapping block for this purpose.

11. Continuously check for any gaps in sides and ends during installation, as this would indicate EZ Loc not properly engaged.

12. After installation of first three rows, place 1/4" spacers at walls and starting end to ensure proper expansion space. Use larger expansion spacers for spans or widths over 30'.

Vinyl Molding

100% WATERPROOF! No buckling or bowing from water spills or moisture issues.

Types: 94" Stair-nosing, 94" Quarter Round, 72" T-Molding and 72" Multipurpose reducers are available.

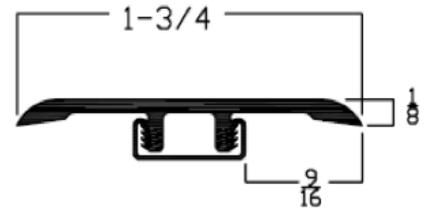
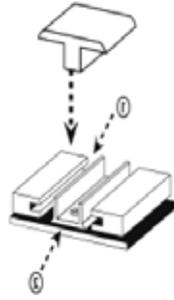
Simple SnapTrack Installation: Same concept as Laminate flooring moldings used with Stair-nosing, T-Molding and Multipurpose Reducer.

Adjustable: Stair nosing, Multipurpose Reducer and T-Molding utilize a metal track which allows one sku. to work with thicknesses of vinyl from 3.0mm – 5.2mm.

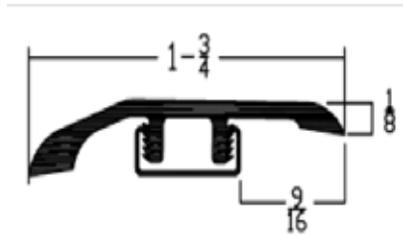
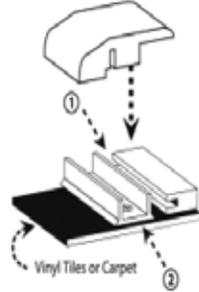
Coordinating: While we call this program "Coordinating", the moldings are designed to match the Vinyl Flooring. The same décor vinyl and wear layer that is used for the flooring is used for the molding.

Warranty: The same wear layer is used as with the flooring which will allow the moldings to wear just as long as the coordinating flooring.

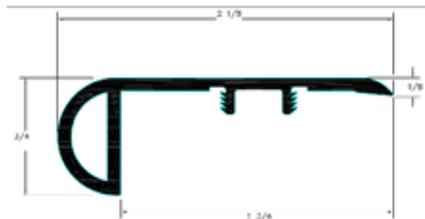
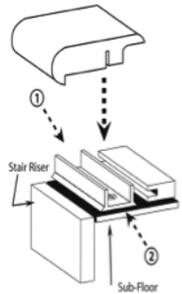
1. T-Molding is 72" long and transitions different types of flooring of the same height. For example, vinyl to vinyl.



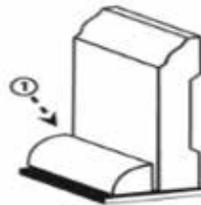
2. Multipurpose Reducer is 72" long and transitions flooring of different heights. For example, from carpet to vinyl.



3. Overlap Stair-nose is 94" long. Any existing tread bullnose must be cut off.



4. Quarter Round is 94" and finishes the perimeter of the floor. Please take notice the Quarter Round should be affixed to the vertical surface and not affixed to the flooring itself.



5. Snap Trak (Packed with each molding)

Position track 3/16" away from resilient vinyl floor

Screw track to subfloor

Snap molding onto track

Track is adjustable from 3.8mm to 5.2mm thick vinyl flooring.



trinity surfaces

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