

Installation and Warranty

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Installation - Rolls & Tiles

Job Site Conditions

A. Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the floor should be protected with an appropriate cover. Kraft paper or plastic works well.

B. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during, and after the installation.

Subfloors

iBuildGreen's recycled rubber flooring; EVERLAST Fitness Flooring rolls and tiles, may be installed over concrete, approved Portland- based patching and leveling materials, such as Ardex K-15 or equivalent, and wood.

NOTE: Gypsum-based patching and leveling compounds are not acceptable.

A. Wood Subfloors – Wood subfloors should be double construction with a minimum thickness of one inch. The floor must be rigid and free from movement with a minimum of 18 inches of well-ventilated air space below.

B. Underlayments – The preferred underlayment panel is American Plywood Association (APA) underlayment grade plywood, minimum thickness of 1/4-inch, with a fully sanded face.

NOTE: Particleboard, chipboard, Masonite and lauan are not considered to be suitable underlayments.

C. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days before installing EVERLAST. It must be fully cured and permanently dried.

Subfloors Requirements and Preparations

A. Subfloors shall be dry, clean, smooth, level, and structurally sound. They should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, according to ASTM F710.

B. Subfloors should be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new flooring. The surface should be flat to the equivalent of 3/16" (4.8 mm) in 10' (3.0 m).

C. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved Portland-based patching compound.

D. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved Portland-based patching compound.

E. Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.

F. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with the E- Grip™ III adhesive.

HAZARDS:

SILICA WARNING – Concrete, floor patching compounds, toppings, and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding, or drilling can produce respirable crystalline silica (particles 1- 10 micrometers). Classified by OSHA as an IA carcinogen, respirable silica is known to cause silicosis and other respiratory diseases. Avoid actions that may cause dust to become airborne. Use local or general ventilation or provide protective equipment to reduce exposure to below the applicable exposure limits.

ASBESTOS WARNING – Resilient flooring, backing, lining felt, paint, or asphaltic "cutback" adhesives can contain asbestos fibers. Avoid actions that cause dust to become airborne. Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize. Regulations may require that the material be tested to determine the asbestos content. Consult the document "Recommended Work Practices for Removal of Existing Resilient Floor Coverings" available from the Resilient Floor Covering Institute.

LEAD WARNING – Certain paints can contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and the publication "Lead Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing" available from the United States Department of Housing and Urban Development.

G. Maximum moisture vapor emission of the concrete must not exceed 5.5 lbs. per 1000 sq.ft. in a 24 hour period as measured by the calcium chloride moisture emission test conducted in accordance to ASTM F1869. Moisture can also be measured using the RH Relative Humidity test method per ASTM F2170 standard. Moisture content should not exceed 85% RH. If levels are high using either test method, then one of iBuildGreen's

recommended vapor retardants must be used. If the emissions exceed the limitations, the installation should not proceed until the situation has been corrected.

NOTE: For moisture remediation, iBuildGreen recommends the following two vapor retardant products.

1. ARDEX MC Rapid, Plus or Ultra, www.ardex.com
2. Bostik Durabond D-250, www.bostik-us.com

H. It is essential that pH tests be taken on all concrete floors. If the pH is greater than 9, it must be neutralized prior to beginning the installation.

I. Adhesive bond tests should be conducted in several locations throughout the area. Glue down 3' x 3' test pieces of the flooring with the recommended adhesive and trowel. Allow to set for 72 hours before attempting to remove. A sufficient amount of force should be required to remove the flooring and, when removed, there should be adhesive residue on the subfloor and on the back of the test pieces.

NOTE: This product is suitable for installation over a radiant heat source.

Material Storage and Handling

A. Material should be delivered to the job site in its original, unopened packaging with all labels intact.

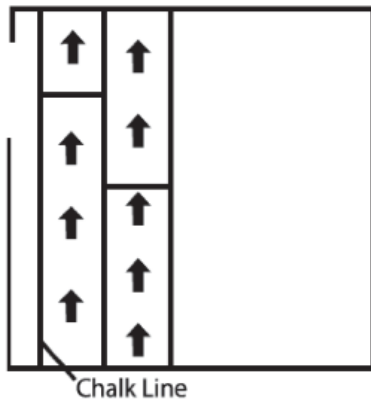
B. Roll material should always be stored laying down. Storing rubber on end will curl the edges resulting in permanent memory of the material. All edges with memory curl must be straight edge cut before installation. Do not store rolls higher than 4 rolls or for more than six months. Material should only be stored on a clean, dry, smooth surface.

C. Inspect all materials for visual defects before beginning the installation. No labor claim will be honored on material installed with visual defects. Verify the material delivered is the correct style, color, and amount. Any discrepancies must be reported immediately before beginning installation.

NOTE: Everlast Fitness Flooring is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer's responsibility to inspect all products to insure the correct style, thickness, and color. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

D. The material and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.

E. All EVERLAST rolls must be unrolled and installed in the same direction, see diagram 1. Each roll is marked on the side of the core with red or orange paint to aid in this process. Use the colored edge of the core as a guide. Laying rolls in the opposite direction will cause color variations between the rolls.

**Diagram 1**

F. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should unroll all rolls and allow to relax overnight. A bare minimum of two hours is required. Shaking the material once it is unrolled can help it to relax.

Installation – Roll material

A. Make the assumption that the walls you are butting against are not straight or square. Using a chalk line, make a starting point for an edge of the flooring to follow. The chalk line should be set where the first seam will be located.

B. Remove the Everlast from the shrink wrap and unroll it onto the floor. Lay the rubber on the floor in a way that will use your cuts efficiently. Cut all rolls at the required length, including enough to run up the wall a few inches.

C. If end seams are necessary, they should be staggered on the floor and overlapped approximately 3-6". End seams will be trimmed after acclimation period using a square to ensure they fit tightly without gaps.

D. After allowing proper acclimation and rough cuts are made you may begin the installation.

E. Align the first edge to the chalk line.

Note: it is very important that the first seam is perfectly straight.

F. Position the second roll with no more than a 1/8" overlap over the first roll at the seam. After adhesive is applied to substrate the material will be worked back to eliminate the overlap. This procedure will leave tight seams and eliminate any gaps. Care should be taken to not over compress the seam. Over compressed seams will cause peaking.

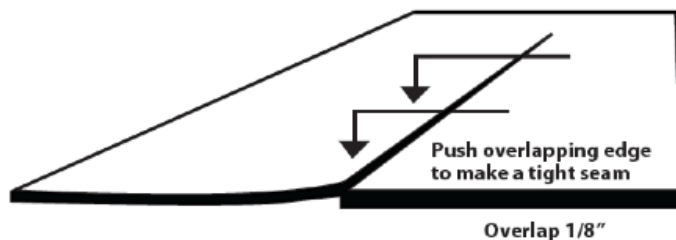


Diagram 2

G. It may be necessary to trim the edge of the second lineal drop if the rolls do not extend the length or width of the room. Rolls laid end to end with a variance in roll width greater than 1/4" could result in peaked seams.

H. Repeat for each consecutive sheet necessary to complete the area or those rolls that will be installed that day.

Method 1 – Glue down (6 mm, 8mm and 9 mm Roll)

A. After performing the above procedures, begin the application of the adhesive. We recommend E-Grip III, a one-component moisture-cured polyurethane adhesive. E-Grip III should not be mixed. It is specially formulated for use right out of the pail. Apply E-Grip III to the substrate using a 1/16" square-notched trowel.

B. Fold over the first drop along the wall (half the width of the roll).

C. Spread the adhesive using the proper size square-notched trowel. Take care not to spread more E-Grip III than can be covered with flooring within 30 minutes. The open time of the adhesive is 30–40 minutes at 70°F and 50% relative humidity.

NOTE: Temperature and humidity affect the open time of the adhesive. Temperatures above 70°F and/or relative humidity above 50% will cause the adhesive to set up more quickly. Temperatures below 70°F and/or relative humidity below 50% will cause the adhesive to set up more slowly. The installer should monitor the on-site conditions and adjust the open time accordingly.

D. Lay the flooring into the wet adhesive. Do not allow the material to “flop” into place; this may cause air entrapment and bubbles beneath the flooring.

E. Immediately roll the floor with a 75–100 lb. roller to ensure proper adhesive transfer. Overlap each pass of the roller by 50% of the previous pass to ensure the floor is properly rolled. Roll the width first and then the length.

F. Fold over the second half of the first roll and half of the second roll. Spread the adhesive. Spread the adhesive at right angles to the seam to prevent the adhesive from oozing up through the seam. Roll the flooring.

G. Continue the process for each consecutive drop. Work at a pace so that you are always folding material back into wet adhesive.

NOTE: Never leave adhesive ridges or puddles. They will telegraph through the material.

H. Do not allow E-Grip III to cure on your hands or the flooring. Immediately wipe off excess adhesive with a rag dampened with mineral spirits! Cured adhesive is very difficult to remove from hands. **We strongly suggest wearing gloves while using E-Grip III.**

I. Hand roll all seams after the entire floor has been rolled. If some seams are gapping it is possible to hold them together temporarily with blue painters tape. Tape should be removed after adhesive has developed a firm set (approximately 2-3 hours). Allowing tape to remain longer than 2-3 hours or using aggressive tapes may result in adhesive residue. iBuildGreen will not be responsible for residue left behind from tape of any kind.

J. In some instances, it may be necessary to weigh down the seam until the adhesive develops a firm set. Boxes of cove base or tile work well. Keep traffic off the floor for a minimum of 24 hours. Floor should be free from rolling loads for a minimum of 48-72 hours. Foot traffic and rolling loads can cause permanent indentations or debonding in the uncured adhesive.

Method 2 – Tape down (8 mm and 9 mm Roll)

NOTE: It is characteristic for rubber flooring to expand and contract with changes in temperature and humidity. Dependent upon conditions, double face tape may not be strong enough to hold rubber in place in every situation. For permanent installations it is recommended to use our EGRIP III urethane adhesive.

NOTE: Tape method is not an approved procedure for ice rink applications. Please contact vendor's technical department (1-800-322-1923) for guidelines on ice rinks or outdoor applications.

- A.** Dry lay the rolls onto the subfloor.
- B.** Draw a pencil line beneath all seams to be taped.
- C.** Use a high-quality double-faced carpet tape with a minimum width of two inches.
- D.** Fold over the first drop along the chalk line (half the width of the roll).
- E.** Apply two strips of the double-faced tape along the seam, one on each side of the pencil mark.
- F.** Remove the release paper and place the flooring onto the exposed tape.
- G.** When butting one roll next to another, overlap the seams by no more than 1/8". Work the material back to eliminate the overlap. This procedure will leave tight seams over the tape and eliminate any gaps.
- H.** Hand-roll the seams to ensure adequate contact. Do not roll the entire floor.

Installation – Tiles

A. Inspect all materials for visual defects before beginning the installation. No labor claim will be honored on material installed with visual defects. Verify the material delivered is the correct style, color, and amount. Any moderate to severe discrepancies must be reported immediately before beginning the installation.

NOTE: Everlast Fitness Flooring is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer's responsibility to inspect all products to insure the correct style, thickness, and color.

Tiles manufactured from mats are intended for smaller installations. Larger quantities resulting in multiple dye lots may not be of an exact match in shade or density. Every effort is made to ensure the best possible match, however iBuildGreen makes no warranty on the exact match between dye lots. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

B. EVERLAST tiles must also be installed in the same direction. (Directional markings stamped on the bottom of the tiles must point in the same direction.)

C. Measure the width of the area to be covered.

D. Mark the center of the area at two points, one at each end.

E. Snap a chalk line, line #1, through these two points.

F. Determine the center point of the chalk line.

G. Using a Carpenter's square or another method, snap a second chalk line, line #2, perpendicular (at 90°) to the first line. The lines should intersect at their centers.

H. The area to be covered is now divided into quarters. Begin the installation at the center of the area, where the two lines intersect. See diagram 3. EVERLAST tiles must be installed in the same direction. (Directional markings stamped on the bottom of the tiles must point in the same direction.)

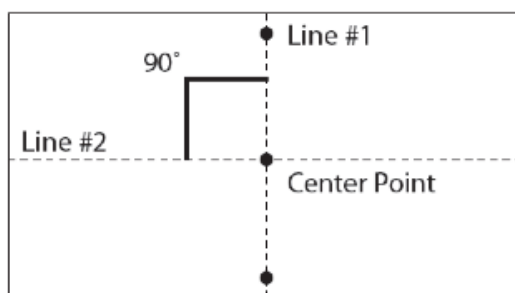
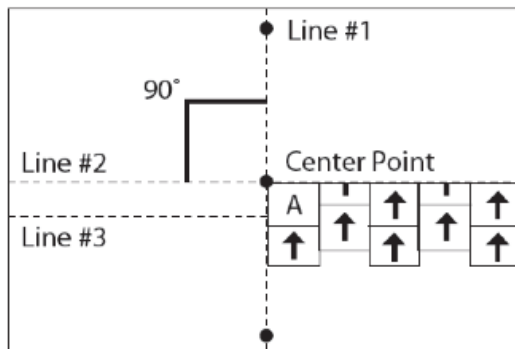


Diagram 3

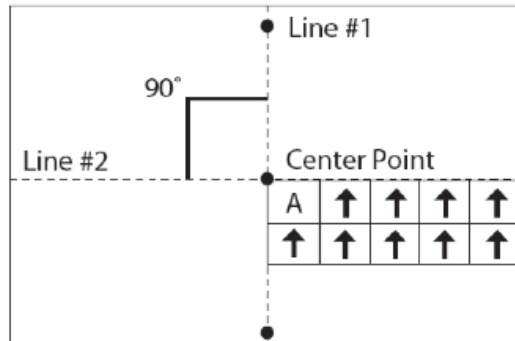
NOTE: To lay in an ashlar configuration, snap a third chalk line parallel to line #2 and perpendicular to line #1. The distance between line #2 and line #3 should be half the width of the tile (9 or 18 inches). See diagram 4.

**Diagram 4**

I. After the above procedure is performed, begin application of E-Grip III, iBuildGreen's recommended one-component moisture-cured polyurethane adhesive. Apply E-Grip III to the substrate using a 1/16" square-notched trowel.

J. Spread the adhesive using a 1/16" square-notched trowel. Take care not to spread more E-Grip III than can be covered with flooring within 30 minutes. The open time of the adhesive is 30–40 minutes at 70°F and 50% relative humidity.

K. Place the first, tile A, into the wet adhesive making sure that the edges are precisely placed along the chalk lines and where they intersect. Press firmly on the tiles to remove any curls or entrapped air. See diagram 5.

**Diagram 5**

Reminder: Arrows on bottom of tiles must point in the same direction.

L. Lay whole tiles from left to right along chalk line #1 up to the wall on the opposite side of chalk line #2. The last tile will likely have to be cut to fit against the wall.

M. Do not allow E-Grip III to cure on your hands or the flooring. Wipe off excess adhesive with a rag dampened with mineral spirits! Cured adhesive is very difficult to remove from hands. **We strongly suggest wearing gloves when using E-Grip III.**

N. Continue this process with each row until you reach the wall across from chalk line #1.

O. Go back and fill in gaps between the two original chalk lines and the wall on those two sides.

P. If some seams are gapping it is possible to hold them together temporarily with blue painters tape. Tape should be removed after adhesive has developed a firm set (approximately 2-3 hours). Allowing tape to remain longer than 2-3 hours or using aggressive tapes may result in adhesive residue. iBuildGreen will not be responsible for residue left behind from tape of any kind.

Q. Roll a 75-100 lb. roller over the floor within 45 minutes to ensure a proper transfer of adhesive. Overlap each pass of the roller by 50% of the previous pass to ensure that the floor is properly rolled.

R. Keep traffic off the floor for a minimum of 24 hours. Floor should be kept free from rolling loads for a minimum of 48-72 hours. Foot traffic and rolling loads can cause permanent indentations or debonding in the uncured adhesive and cause tiles to shift.

Installation – Accent tile inlay

NOTE: Total glue down is the only recommended method for permanent installations.

A. Cut inlays into field area before spreading adhesive. Logos and inlays are NOT approved for double stick tape installations.

B. Position the inlay on the field area at the desired location for trace cutting.

C. Starting at one corner and using a straight edge, trace-cut along one edge of the inlay, see diagram 6.

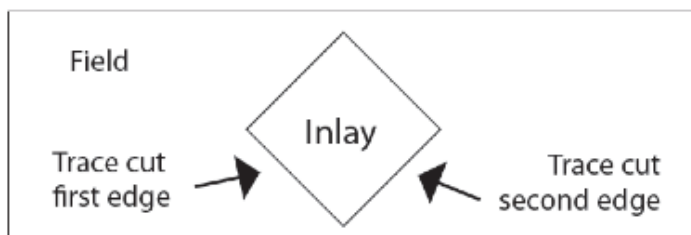


Diagram 6

D. Starting at the same corner, trace-cut along an adjacent edge of the inlay. Remove the inlay.

E. Make a third cut and remove the triangular-shaped piece, see diagram 7.

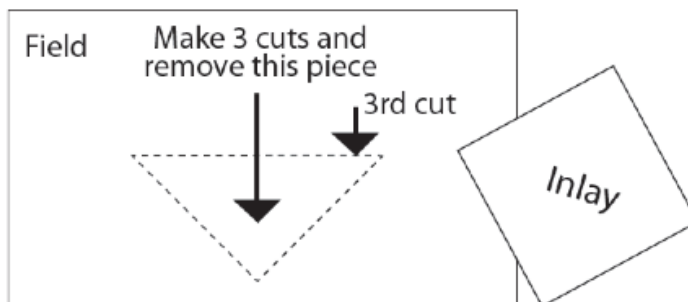


Diagram 7

F. Position the inlay into the triangular-shaped hole. Be sure that the corner and edges are butted tightly against the field piece. Tape the edges in place with masking tape, see diagram 8.

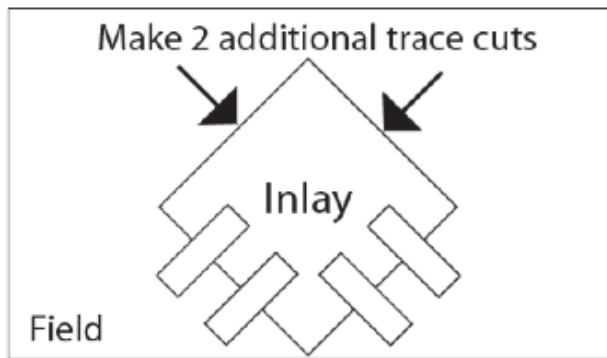


Diagram 8

- G.** Using the straight edge and the square, continue trace-cutting the remainder of the field for the inlay.
- H.** Remove and discard the scrap pieces.
- I.** Place the inlay into the field and tape the remaining edges with masking tape.
- J.** Fold over the material and apply adhesive to the subfloor as for a regular installation.
- K.** Continue the installation, following the directions for the glued down method.

Important Information for the Installer

FLOOR PROTECTION

The specifier should include specification details to protect the floor post-installation and until job construction is complete, such as covering the entire floor with paper or other floor covering device (plastic, plywood, etc.) until construction is completed and thorough cleaning and maintenance can be implemented.

ASSIGNMENT OF CLEANING AND MAINTENANCE

The specifier should determine and assign the responsibility for the initial cleaning and finishing. This responsibility should be specifically assigned to either the flooring contractor, general contractor, maintenance contractor, or owner.

PRODUCTS AVAILABLE FOR PURCHASE

iBuildGreen recommend E-Cleaner and E-Strip.

The recommendations contained in this manual are listed because of their extensive testing and field experience with the EVERLAST product. These instructions are given only as guidance to our customers and for use with our recommended tools and adhesives. iBuildGreen cannot accept any responsibility for loss or damage that may result from the use of this information due to variations in working conditions and/or workmanship of the installer. Users are advised to conduct their own tests for a particular application and assign installers that are familiar with this type of flooring product.

Inspect all rolls and tiles for visual defects including shade variances prior to beginning installation. No labor claim will be honored on material installed with visual defects or shade variances. It may be necessary to lay out and hand select tiles for color consistency. Any discrepancies must be reported immediately before beginning installation. Ensure that all job site and subfloor conditions are met.

Installation - Ultratile

Recommended Installation Methods for 1" Ultratile

INTERIOR INSTALLATION		
	24"x24"x1"	
Surfaces	Dowels	Full Glue
Concrete	A	R
Asphalt	A	R
Plywood	A	R
Compact Gravel	N/A	N/A
Wood or Tile	R	N/A
Resilient Flooring	R	N/A
Carpet	R	N/A
R= Recommended A=Acceptable N/A= Not an Approved Installation Method		

NOTE: For EVERLAST 1" UltraTile outdoor installation instructions please contact vendor's technical department toll free at 1-888-383-7655.

Tools / Materials Required

- Two tape measures - 25' and 50'
- Chalk line - white only!
- Saber saw (Jig saw) or band saw
- Blades for saber saw (7-10 teeth per inch, wood type)
- Utility knife with heavy-duty blades
- Framing square/metal straightedge
- Silver or gold color paint pencils
- Standard size caulk gun
- 4" slot blade screwdriver
- Notched trowels -1/8" square notch
- Safety glasses
- 1-1/2" flexible putty knife
- Coveralls
- Kneepads
- Solvent safe rubber gloves
- Rags
- Trash bags
- Push broom or shop vac
- Mineral spirits
- Installation instructions
- String line
- Cutting table (shipping pallet)
- Dustpan
- 2-3 lb. sledge hammer or rubber mallet
- 2'x 4' to use as tapping block
- Adhesive

Site Work

NOTE: Dimensional tolerance for tiles is +/- 1/8" in thickness and +/- 1/8" in width. From time to time during installation, it may be necessary to measure and hand select tiles to ensure course lines remain straight. Additionally, color tone and shading may vary to the extent that some hand selection is required to maintain maximum uniformity throughout the site.

A. Site Elevation

1. On grade installation - The finished installed height of the UltraTile surface will be equal to or slightly higher than the perimeter grade but not more than 1" higher unless approved by the project engineer.
2. Above grade installation - The installation of UltraTile over existing decks or slabs is referred to as "above grade installation" and will usually require the use of reducers around the perimeters of the area to transition smoothly back to the floor elevation, unless the site terminates at a wall or other vertical surface.

B. Site Slope/Drainage

1. When preparing a new hard base, a minimum slope equal to 1" per 10' of run shall be applied to the finished surface with slope toward the drain basin and drain trough or down-grade side of the site, whichever applies to your project.
2. An acceptable drainage system needs to be put in place to eliminate standing water.

Base Options

A. Hard Base Construction

1. Concrete Base:

a. The base will be constructed of cast-in-place, non-structure, Class A concrete that will develop a minimum compressive strength of 3,000 PSI after 28 days cure (minimum thickness = 4"). Care should be taken to provide for the stated slope. The base should be free of depressions that would pond water. A light broom finish is best for maximum adhesion of the UltraTile tile. New concrete slabs should cure for a minimum of 28 days before installing UltraTile.

2. Paved Asphalt Base:

a. Course aggregate mixtures will provide a stable base. The aggregate size best suited for the

adhered system is 3/8" to 1/2". Do not use asphalt mixtures that contain a high percentage of fines, as they are not stable in hot weather and may become soft enough to allow the tiles to slide in high use areas.

b. The soil sub grade must be compacted with a minimum of two passes using a 10 ton vibratory roller with no soft or moving areas upon completion. The crushed stone base must also be compacted with a minimum of two passes using a 10 ton vibratory roller. The binder and wear courses of the asphalt must both meet 95% of the theoretical maximum density of the JMF (Job Mix Formula).

Total Passing Sieve	Percent by Weight
1/2"	100
3/8"	80-100
#4	45-90
#8	30-65
#50	5-25
#200	2-8
Asphalt Cement	6-8

c. New asphalt surfaces should be allowed to cure for 28 days before the adhered UltraTile system is laid.

General information

A. 1" UltraTile may be installed over most concrete, wood, tile, or carpeted floors. The floor over which 1" UltraTile is installed must be level, in good condition, and clear of dirt and loose debris.

B. For installations requiring adhesion to concrete, maximum moisture vapor emission of the concrete must not exceed 5.5 lbs. per 1000 sq/ft. in a 24 hour period as measured by the calcium chloride moisture emission test conducted in accordance to ASTM F1869. Moisture can also be measured using the RH Relative Humidity test method per ASTM F2170 standard. Moisture content should not exceed 85% RH. If levels are high using either test method, then one of iBuildGreen's recommended vapor retardants must be used. If the emissions exceed the limitations, the installation should not proceed until the situation has been corrected.

NOTE: Fully adhered installation procedures can be found on page 21.

C. If 1" UltraTile is being installed wall-to-wall, the tile may be doveled together, with the walls serving to contain the outer rows of tile. Tiles that are not contained by walls, either at openings in the wall (i.e. doorways) or freestanding, should be contained by adhering the outer tiles and 1" UltraTile ramps around the outer perimeter. The adhered tile and ramps provide a transition from the 1" thick tile to the original floor level. The perimeter tiles and ramps should be adhered using E-Grip III adhesive with a 1/8" square-notched trowel indoors over substrate.

D. Installation should not begin until after all other trades are finished in the area.

E. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F for 48 hours before, during, and after the installation.

F. Unpack tiles and allow them to sit in the area to be installed. Tiles and adhesive must be acclimated at a uniform room temperature for a minimum of 48 hours prior to installation.

NOTE: Dimensional tolerance for tiles is +/- 1/8" in thickness and +/- 1/8" in width. From time to time during installation, it may be necessary to measure and hand select tiles to ensure that course lines remain straight. Additionally, color-tone and shading may vary to the extent that some hand selection is required to maintain maximum uniformity throughout the site.

As with any flooring product, dry laying and full inspection of all tiles will allow for a quality installation. Tiles should be inspected from several angles and adjusted as necessary.

NOTE: Everlast's UltraTile is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer's responsibility to inspect all products to insure the correct style, thickness, and color. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

Site Layout

- A.** Sweep area clear of all dust and loose debris.
- B.** Determine a starting point for the first course of tile to best suit the site area. For irregular site configurations, the best starting point is often in the center. This will ensure a symmetrical finish for tiles that require trimming along the perimeter. Other installations are best started in the corner or along one edge that represents the length or width dimension of the site.
- C.** Mark two points on the base surface at an equal distance from the edge of the installation. These points should be located near the opposite ends of the site in the length-wise direction.
- D.** Snap a chalk line through the established points.
- E.** Measure the length of the site along the chalk line. Mark a point at half the distance of the site.
- F.** Using the 3-4-5 right triangle method, snap a chalk line to form a 90° angle to the previously established length-wise chalk line. These perpendicular reference lines will serve as a guide for laying the first course of tile.
- G.** Dowel placement - Insert a dowel pin in each of the three dowel holes on two adjacent sides of the tile. Tap the dowel into the molded hole until the length of the dowel is showing beyond the edge of the tile. Install dowels in enough tiles in this manner to lay one course line.

Laying Tile for Starter Course

- A.** Place the first doweled tile at the intersection of the chalk lines with one doweled side facing inward along the course line.
- B.** Join the next tile in the starter course to the original tile by pushing it against the original tile, engaging the dowel holes in the second tile with the dowels in the original tile.
- C.** The assembly of tiles using dowels is a two-man job, with one man working on top of the last tile laid to secure it, while the other worker is applying force to the tile being laid.
- D.** Continue to assemble tiles in this manner until the row has been completed across the entire course.
- E.** A small 2-3 lb. hand sledge hammer may be used to aid assembly by striking the side edge of the tile on the side close to the doweling point, while pressure is applied to the tile in the direction of the doweling by the second workman. A sledge and 2 x 4 may be used to tightly dowel several tiles. These techniques will allow the tile edges to be butted tight together.

Laying the Second and Subsequent Tile Course

- A.** Place dowels in the tile to be used for the second course as done previously. Join the first tile in the second course to the first tile in the first course.
- B.** The second tile in the second course is now ready for placement. This tile will be doweled on two sides. First, dowel the tile to the original tile in the second course, placing the dowels from the first course of tiles above the tile being doweled.
- C.** Now dowel the second side of the tile by lifting the tiles to be joined together and inserting one dowel at a time with the appropriate dowel hole.
- D.** Continue to assemble tiles in this manner until the row has been completed across the entire course. Complete the third and subsequent courses in a similar manner.

Fitting the Outer Course Tile

- A.** In most wall-to-wall installations, the tile in the outer course will have to be cut to fit. Tile may be cut using a heavy-duty utility or carpet knife and a straight edge. A saber saw utilizing a 7-10 TPI wood cutting blade also works well. A saw with a 3-3.5 amp rated motor having a 1" stroke with variable orbital settings will produce the best results. A cutting table used to support the work is required during cutting. A standard shipping pallet works well for this purpose for in-field use.
- B.** The outer course should then be installed as described in item C above, utilizing the remaining dowel holes. The cut edge should face the wall.

Adhering the Outer Course and Ramps (ADA Ramp Instructions on Page 22)

- A.** If required, ramps can be cut in the same manner as tiles. If ramps are used at a corner, each ramp should be miter cut at a 45 degree angle.
- B.** After ramps have been properly cut, ramps and outer tile, which are not contained by walls, should be adhered to the existing floor using E-Grip III adhesive with a 1/8" square notched trowel indoors over substrate. Set tiles and ramps in the adhesive bed. Tiles being set in the adhesive bed should be doweled to the next inner course of tiles, but need not be doweled to each other. Ramps need not be doweled.
- C.** For areas where adhering a ramp is not an option, you may edge adhere the side heel of the reducer to the side of the tile and/or drill dowel holes in the side heel of the reducer to match the existing dowel holes in the tile.
1. When drilling dowel holes, the holes should be 1/4" in diameter and 1.75" deep.
 2. Adhesive should be allowed to cure for 24 hours before walking on the tile.
- D.** Your 1" UltraTile installation is now ready for use and will provide years of reliable, low maintenance performance.

Fully Adhered Installation

A. Follow the site layout instructions to prepare the site area for installation. The tiles, accessories, and substrates must be acclimated and dry 24 hours before, during and after the application of adhesive.

NOTE: Dimensional tolerance for tiles is +/- 1/8" in thickness and +/- 1/8" in width. From time to time during installation, it may be necessary to measure and hand select tiles to ensure that course lines remain straight. Additionally, color tone and shading may vary to the extent that some hand selection is required to maintain maximum uniformity throughout the site.

As with any flooring product, dry laying and full inspection of all tiles will allow for a quality installation. Tiles should be inspected from several angles and adjust as necessary.

NOTE: Everlast's UltraTile is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer's responsibility to inspect all products to insure the correct style, thickness, and color. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

NOTE: Coverage rates for the E-Grip III adhesive are approximately 60 square foot per gallon using a 1/8" square notch trowel. E-Grip III is available in 2 and 4-gallon pails.

B. Using the appropriate trowel, apply the E-Grip III adhesive out slightly wider than the tile being placed. Do not spread more adhesive than can be covered in 30 minutes.

C. Place tiles into the fresh adhesive bed following pre-established course lines. If applicable, place ramps into the fresh adhesive in a similar manner.

D. After placing tiles into adhesive bed, roll the tiles with a 75 pound three section flooring roller to ensure adhesive transfer to the back of the tile feet.

E. Adhesiveshouldbeallowedtocurefor24hoursbeforeallowingfoottraffic.Allheavytraffic and/or light rolling loads should be avoided for a minimum of 48-72 hours after installation to allow adhesive to develop strength. In cases where 48-72 hours is not possible, it is recommended to cover the floor with a rigid covering such as 1/2" plywood sheeting with a fully sanded face against the surface of the tiles.

Cutting 1" Tile and Ramps

A. Avoid leaving a cut edge of a tile exposed to eyesight. To guarantee a finished appearance, any tile that has its factory molded, radius edge removed for any reason should be backed along that edge using a 1" masonry or timber edging, unless that edge is to be placed against a wall or other vertical member.

B. The most accurate cuts in tiles are made using a heavy-duty utility or carpet knife and a straight edge. A saber saw utilizing a 7-10 TPI wood cutting blade also does an acceptable job, especially for radius or free-form cuts. A saw with a 3-3.5 amp rated motor having a 1" stroke with variable orbital setting will produce the best results. A cutting table used to support the work is required during cutting. A standard shipping pallet works well for infield use.

C. Tile cuts are typically laid out by referencing dimensions from the edges of the tiles already in position to a wall or other obstruction along or around which the tiles are to fit. These dimensions are then transferred to and laid out on the tile to be cut.

D. Layout lines are recommended to be made using a permanent marking pen, silver grease pencil, paint type marking pen, or carpenter's pencil.

E. Ramps installed at corners should be miter cut to allow ramps to fit together properly.

Preparation for Installation of ADA Ramps

A. Make sure that the subfloor is flat, clean, dry and free of contaminants such as waxes, finishes, sealers, or other extraneous materials that would prevent a good adhesive bond.

B. Unpack the materials and allow them to sit in the area to be installed. Materials and adhesive must be acclimated at a uniform room temperature for a minimum of 48 hours prior to installation.

NOTE: The toe edge of the ramp contains a wire reinforcement material. Take care not to bend the edges as it will be difficult to get ramps with bent reinforcement to lay flat.

C. When the UltraTile installation is complete clean and prepare the remaining area for full adhesion of the ramps.

Installation - ADA Ramp

A. Sweep area clear and/or shop vac all dust and loose debris.

B. Dry lay ramps and make appropriate cuts before opening the adhesive.

C. To cut the ramps, use a band saw or a saber saw with 7-10 TPI wood cutting blade. The saber saw should have a 3-3.5 amp rated motor and 1" stroke and variable orbital settings. A compound miter saw can also be used with a cross cut tooth blade. A small can of silicone spray can aid in the cutting and help cut down on smoke from the cutting however this must be cleaned from the product before applying the adhesive.

D. Mark the areas where adhesive is to be applied and temporarily remove the ramps.

E. Spread the recommended E-Grip III urethane adhesive using a 1/8" square notch trowel. Do not spread more adhesive than can be covered in 30 minutes.

F. Carefully place the ramps into the adhesive. Be sure to press down firmly to assure proper adhesive transfer to the back side of the ramp or roll with a 75 pound three sectional flooring roller.

G. Use weight to evenly hold down the toe edge of the ramps. The entire toe edge should be weighted, and the weight should be heavy enough to prevent the edge of the ramps from lifting out of the adhesive. Once the adhesive cures the ramp will not move.

NOTE: Adhesive spills must be removed while still wet. Use a dry rag to pick up the majority of the adhesive. Wipe the remaining residue with a rag dampened with mineral spirits. Cured adhesive can only be removed from surfaces by mechanical means, such as scraping or sanding.

H. After 24 hours, remove the weight from the ramps.

I. Clean and maintain the area in accordance with the instructions in the Maintenance Section below.

J. Your 1" UltraTile installation is now ready for use and will provide years of reliable, low maintenance performance.

Important Information for the Installer

Proper protection and maintenance of 1" UltraTile post-installation should be specified by the architect/designer. EVERLAST UltraTile products are not pre-coated with a factory finish; therefore, they should not be subject to construction debris and potential damage caused from heavy-duty construction activities.

FLOOR PROTECTION

The specifier should include specification details to protect the floor post-installation and until job construction is complete, such as covering the entire floor with paper or other floor covering device (plastic, plywood, etc.) until construction is completed and thorough cleaning and maintenance can be implemented.

ASSIGNMENT OF CLEANING AND MAINTENANCE

The specifier should determine and assign the responsibility for the initial cleaning and finishing. This responsibility should be specifically assigned to either the flooring contractor, general contractor, maintenance contractor, or owner.

PRODUCTS AVAILABLE FOR PURCHASE

iBuildGreen recommends E-Cleaner and E-Strip

The recommendations contained in this manual are listed, because of their extensive testing and field experience with the EVERLAST product. These instructions are given only as guidance to our customers and for use with our recommended tools and adhesives. iBuildGreen cannot accept any responsibility for loss or damage that may result from the use of this information due to variations in working conditions and/or workmanship of the installer. Users are advised to conduct their own tests for a particular application and assign installers that are familiar with this type of flooring product.

Inspect all tiles for visual defects including shade variances prior to beginning installation. No labor claim will be honored on material installed with visual defects or shade variations. It may be necessary to lay out and hand select tiles for color consistency. Any discrepancies must be reported immediately before beginning the installation. Ensure that all job site and subfloor conditions are met.

Installation - Performance

Job Site Conditions

A. Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the floor should be protected with an appropriate cover. Kraft paper or plastic works well.

B. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during, and after the installation.

Subfloors

iBuildGreen's recycled rubber flooring; PERFORMANCE sports surfacing rolls, may be installed over concrete, approved Portland- based patching and leveling materials, such as Ardex K- 15 or equivalent, and wood.

NOTE: Gypsum-based patching and leveling compounds are not acceptable.

A. Wood Subfloors – Wood subfloors should be double construction with a minimum thickness of one inch. The floor must be rigid and free from movement with a minimum of 18 inches of well- ventilated air space below.

B. Underlayments – The preferred underlayment panel is American Plywood Association (APA) underlayment grade plywood, minimum thickness of 1/4-inch, with a fully sanded face.

NOTE: Particleboard, chipboard, Masonite and lauan are not considered to be suitable underlayments.

C. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days before installing PERFORMANCE. It must be fully cured and permanently dried.

Subfloor Requirements and Preparation

A. Subfloors shall be dry, clean, smooth, level, and structurally sound. They should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, according to ASTM F710.

B. Subfloors should be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new flooring. The surface should be flat to the equivalent of 3/16" (4.8 mm) in 10' (3.0 m).

C. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved Portland-based patching compound.

D. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved Portland-based patching compound.

E. Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.

F. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with the E-Grip™ III adhesive.

G. Maximum moisture vapor emission of the concrete must not exceed 5 1/2 lbs./1,000 sq. ft. in a 24-hour period, as measured by the calcium chloride moisture emission test conducted in accordance to ASTM F1869. Moisture can also be measured using the RH Relative Humidity test method per the ASTM F2170 standard. Moisture content should not exceed 85% RH. If levels are higher using either test method, than one of iBuildGreen's recommended vapor retardants must be utilized.

NOTE: For moisture remediation, iBuildGreen recommends the following two vapor retardant products.

1. ARDEX MC Rapid, Ultra or Plus, www.ardex.com

2. Bostik Durabond D-250, www.bostik-us.com

H. It is essential that pH tests be taken on all concrete floors. If the pH is greater than 9, it must be neutralized prior to beginning the installation.

I. Adhesive bond tests should be conducted in several locations throughout the area. Glue down 3' x 3' test pieces of the flooring with the recommended adhesive and trowel. Allow to set for 72 hours before attempting to remove. A sufficient amount of force should be required to remove the flooring and, when removed, there should be adhesive residue on the subfloor and on the back of the test pieces.

HAZARDS:

SILICA WARNING – Concrete, floor patching compounds, toppings, and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding, or drilling can produce respirable crystalline silica (particles 1-10 micrometers). Classified by OSHA as an

IA carcinogen, respirable silica is known to cause silicosis and other respiratory diseases. Avoid actions that may cause dust to become airborne. Use local or general ventilation or provide protective equipment to reduce exposure to below the applicable exposure limits.

ASBESTOS WARNING – Resilient flooring, backing, lining felt, paint, or asphaltic “cutback” adhesives can contain asbestos fibers. Avoid actions that cause dust to become airborne. Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize. Regulations may require that the material be tested to determine the asbestos content. Consult the document “Recommended Work Practices for Removal of Existing Resilient Floor Coverings” available from the Resilient Floor Covering Institute.

LEAD WARNING – Certain paints can contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and the publication “Lead Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing” available from the United States Department of Housing and Urban Development.

Material Storage and Handling

A. Material should be delivered to the job site in its original, unopened packaging with all labels intact.

B. Roll material should always be stored laying down. Storing rubber on end will curl the edges resulting in permanent memory of the material. All edges with memory curl must be straight edge cut before installation. Do not store rolls higher than 4 rolls or for more than six months. Material should only be stored on a clean, dry, smooth surface. Rolls should be stored with the end of the sheet facing up. If rubber is stored upside down the weight of the roll may cause the end of the sheet to compress, resulting in residual indentation.

C. Inspect all materials for visual defects before beginning the installation. No labor claim will be honored on material installed with visual defects. Verify the material delivered is the correct style, color, and amount. Any discrepancies must be reported immediately before beginning installation.

NOTE: PERFORMANCE is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer's responsibility to inspect all products to insure the correct style, thickness, and color. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

D. The material and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.

E. All PERFORMANCE rolls must be unrolled and installed in the same direction. See diagram. Laying rolls in the opposite direction will cause color variations between the rolls.

F. Rolls are labeled with batch numbers and roll numbers. Do not mix batch numbers together and install all rolls in consecutive order.

G. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should unroll all cuts and allow to relax overnight. A bare minimum of two hours is required. Shaking the material once it is unrolled can help it to relax.

Installation - Dry Lay and Preparation

A. Make the assumption that the walls you are butting against are not straight or square. Using a chalk line, make a starting point for an edge of the flooring to follow.

B. Remove the PERFORMANCE from the shrink-wrap and unroll it onto the floor. Lay the PERFORMANCE on the floor in a way that will use your cuts efficiently. Cut all rolls at the required length, including enough to run up the wall.

C. Allow the material to acclimate and relax for a minimum of 2 hours but preferably overnight.

D. Place the edge of the first roll along the chalk line.

E. Snap a chalk line where the seam will be located. If necessary, straight cut the seam edge of first piece. Align the first edge to the chalk line; it is very important that the seam is perfectly straight. If necessary, straight edge seam edge of second lineal drop if the first roll does not extend the length or width of the room. If end seams are necessary, they should be staggered on the floor and overlapped approximately 3-6”.

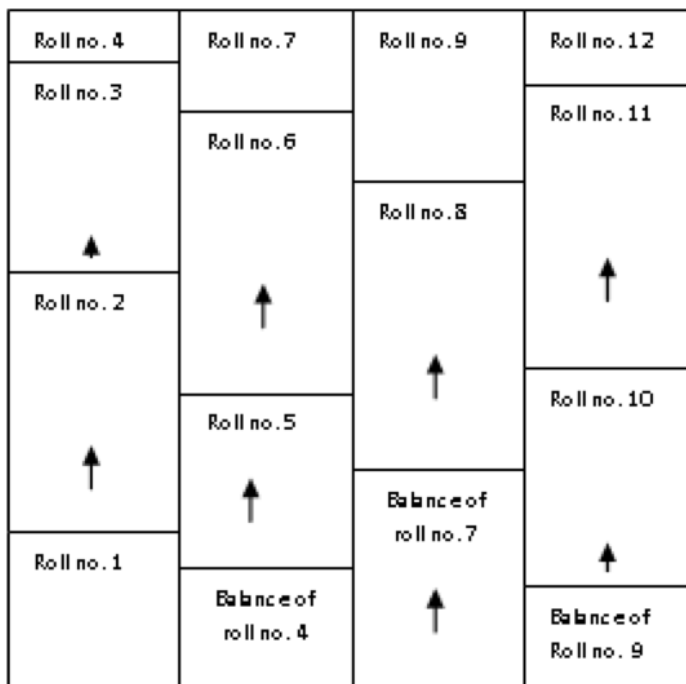


Diagram 9

F. Some thicker versions of the PERFORMANCE such as the 18mm can be difficult to cut. It is recommended to trace cut these carefully and preferred to cut at a slight bevel, causing the bottom layer to be slightly shorter than the finished top layer. If the bevel is cut in the wrong direction, gaps will be seen on the top finished surface.

G. Position the second row with no more than a 1/8” overlap over the first roll at the seam. After adhesive is applied to substrate, the material will be worked back to eliminate the overlap. This procedure will leave tight seams and eliminate any gaps. Care should be

taken to not over compress the seam. Over compressed seams will cause peaking and bond failure at seam edge.

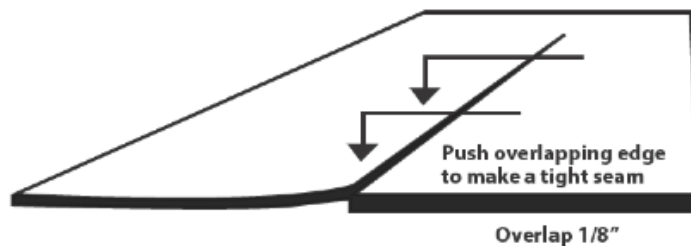


Diagram 10

NOTE: Over compressing the seam will result in bond failure at the seam edge.

H. To alleviate cutting the long edge of the seam, it is recommended to order the rolls either the entire width or length of the room. If rolls span from one side of the room to the other, it is not necessary to cut the seams. This will substantially decrease the amount of time required to install the product.

I. Repeat for each consecutive roll necessary to complete the area or those rolls that will be installed that day.

Installation - Adhering the Rolls

A. After performing the above procedures, begin the application of the adhesive. We recommend E-Grip III, a one-component moisture-cured polyurethane adhesive. E-Grip III should not be mixed. It is specially formulated for use right out of the pail. Apply E-Grip III to the substrate using a 1/16" square-notched trowel.

B. Fold over the first drop along the wall (half the width of the roll).

C. Spread the adhesive using the proper size square-notched trowel. Take care not to spread more E-Grip III than can be covered with flooring within 30 minutes. The open time of the adhesive is 30–40 minutes at 70°F and 50% relative humidity.

NOTE: Temperature and humidity affect the open time of the adhesive. Temperatures above 70°F and/or relative humidity above 50% will cause the adhesive to set up more quickly. Temperatures below 70°F and/or relative humidity below 50% will cause the adhesive to set up more slowly. The installer should monitor the on-site conditions and adjust the open time accordingly.

D. Lay the flooring into the wet adhesive. Do not allow the material to “flop” into place; this may cause air entrapment and bubbles beneath the flooring.

E. Immediately roll the floor with a 100 lb. three section flooring roller to ensure proper adhesive transfer. Overlap each pass of the roller by 50% of the previous pass to ensure the floor is properly rolled. Roll the width first and then the length.

F. Fold over the second half of the first roll and half of the second roll. Spread the adhesive. Spread the adhesive at right angles to the seam to achieve full coverage across the seam. Roll the flooring.

G. If one side of the seam is slightly higher than the other, use a small J type hand roller, applying pressure on the high side to level out.

H. Continue the process for each consecutive drop. Work at a pace so that you are always folding material back into wet adhesive.

NOTE: Never leave adhesive ridges or puddles. They will telegraph through the material.

I. Do not allow E-Grip III to cure on your hands or the flooring. Immediately wipe off excess adhesive with a rag dampened with mineral spirits! Cured adhesive is very difficult to remove from hands.

J. We strongly suggest wearing gloves while using E-Grip III!

K. If some seams are gapping it is possible to hold them together temporarily with blue painters tape. Tape **MUST** be removed after adhesive has developed a firm set which is approximately 2-3 hours. Allowing tape to remain longer than 2-3 hours or using aggressive tapes may result in adhesive residue. iBuildGreen will not be responsible for residue left behind from tape of any kind.

L. In some instances, it may be necessary to weigh down the seam until the adhesive develops a firm set. Boxes of cove base or tile work well.

M. Keep traffic off the floor for a minimum of 24 hours. Floor should be free from rolling loads for a minimum of 48-72 hours. Foot traffic and rolling loads can cause permanent indentations or bond failure in the uncured adhesive.

Important Information for the Installer

PERFORMANCE FLOOR PROTECTION

The specifier should include specification details to protect the floor post-installation and until job construction is complete, such as covering the entire floor with paper or other floor covering device (plastic, plywood, etc.) until construction is completed and thorough cleaning and maintenance can be implemented.

ASSIGNMENT OF CLEANING AND MAINTENANCE

The specifier should determine and assign the responsibility for the initial cleaning and finishing. This responsibility should be specifically assigned to the flooring contractor, general contractor, maintenance contractor, or owner.

PRODUCTS AVAILABLE FOR PURCHASE

iBuildGreen recommends E-Cleaner and E-Strip

The recommendations contained in this manual are listed because of their extensive testing and field experience with the PERFORMANCE product. These instructions are given only as guidance to our customers and for use with our recommended tools and adhesives. iBuildGreen cannot accept any responsibility for loss or damage that may result from the use of this information due to variations in working conditions and/or workmanship of the installer. Users are advised to conduct their own tests for a particular application and assign installers that are familiar with this type of flooring product.

Inspect all rolls for visual defects including shade variances prior to beginning installation. No labor claim will be honored on material installed with visual defects or shade variances. Any discrepancies must be reported immediately before beginning installation. Ensure that all job site and subfloor conditions are met.

Installation - TERF

Job Site Conditions

A. Installation should not begin until after all other trades are finished in the area. If the job requires other trades to work in the area after the installation of the floor, the floor should be protected with an appropriate protective cover.

B. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F (18°C) for 48 hours before, during, and after the installation.

Subfloors

iBuildGreen's recycled rubber flooring; TERF sports rolls and tiles, may be installed over concrete, approved Portland-based patching and leveling materials, such as Ardex K-15 or equivalent, and wood.

NOTE: Gypsum-based patching and leveling compounds are not acceptable.

A. Wood Subfloors – Wood subfloors should be double construction with a minimum thickness of one inch. The floor must be rigid and free from movement with a minimum of 18 inches of well-ventilated air space below.

2. Underlayments – The preferred underlayment panel is American Plywood Association (APA) underlayment grade plywood, minimum thickness of 1/4-inch, with a fully sanded face.

NOTE: Particleboard, chipboard, Masonite and lauan are not considered to be suitable underlayments.

3. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days before installing TERF. It must be fully cured and permanently dried.

Subfloor Requirements and Preparations

A. Subfloors shall be dry, clean, smooth, level, and structurally sound. They should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue, and other extraneous materials, according to ASTM F710.

B. Subfloors should be smooth to prevent irregularities, roughness, or other defects from telegraphing through the new flooring. The surface should be flat to the equivalent of 3/16" (4.8 mm) in 10' (3.0 m).

C. Mechanically remove all traces of old adhesives, paint, or other debris by scraping, sanding, or scarifying the substrate. Do not use solvents. All high spots shall be ground level and low spots filled with an approved Portland-based patching compound.

D. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with an approved Portland-based patching compound.

E. Expansion joints in the concrete are designed to allow for expansion and contraction of the concrete. If a floor covering is installed over an expansion joint, it will likely fail in that area. Use expansion joint covers designed for resilient flooring.

F. Always allow patching materials to dry thoroughly and install according to the manufacturer's instructions. Excessive moisture in patching material may cause bonding problems or a bubbling reaction with the E- Grip™ III adhesive.

HAZARDS:

SILICA WARNING – Concrete, floor patching compounds, toppings, and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding, or drilling can produce respirable crystalline silica (particles 1- 10 micrometers). Classified by OSHA as an IA carcinogen, respirable silica is known to cause silicosis and other respiratory diseases. Avoid actions that may cause dust to become airborne. Use local or general ventilation or provide protective equipment to reduce exposure to below the applicable exposure limits.

ASBESTOS WARNING – Resilient flooring, backing, lining felt, paint, or asphaltic “cutback” adhesives can contain asbestos fibers. Avoid actions that cause dust to become airborne. Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize. Regulations may require that the material be tested to determine the asbestos content. Consult the document “Recommended Work Practices for Removal of Existing Resilient Floor Coverings” available from the Resilient Floor Covering Institute.

LEAD WARNING – Certain paints can contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state, and local laws and the publication “Lead Based Paint: Guidelines for Hazard Identification and Abatement in Public and Indian Housing” available from the United States Department of Housing and Urban Development.

G. Maximum moisture vapor emission of the concrete must not exceed 5.5 lbs. per 1000 sq.ft. in a 24 hour period as measured by the calcium chloride moisture emission test conducted in accordance to ASTM F1869. Moisture can also be measured using the RH Relative Humidity test method per ASTM F2170 standard. Moisture content should not exceed 85% RH. If levels are high using either test method, then one of iBuildGreen's recommended vapor retardants must be used. If the emissions exceed the limitations, the installation should not proceed until the situation has been corrected.

NOTE: For moisture remediation, iBuildGreen recommends the following two vapor retardant products.

1. ARDEX MC Rapid, Plus or Ultra, www.ardex.com
2. Bostik Durabond D, www.bostik-us.com

H. It is essential that pH tests be taken on all concrete floors. If the pH is greater than 9, it must be neutralized prior to beginning the installation.

I. Adhesive bond tests should be conducted in several locations throughout the area. Glue down 3' x 3' test pieces of the flooring with the recommended adhesive and trowel. Allow to set for 72 hours before attempting to remove. A sufficient amount of force should be

required to remove the flooring and, when removed, there should be adhesive residue on the subfloor and on the back of the test pieces.

Material Storage and Handling

A. Material should be delivered to the job site in its original, unopened packaging with all labels intact.

B. Roll material should always be stored laying down. Storing rubber on end will curl the edges resulting in

permanent memory of the material. All edges with memory curl must be straight edge cut before installation. Do not store rolls higher than 4 rolls or for more than six months. Material should only be stored on a clean, dry, smooth surface.

C. Inspect all materials for visual defects before beginning the installation. No labor claim will be honored on material installed with visual defects. Verify the material delivered is the correct style, color, and amount. Any discrepancies must be reported immediately before beginning installation.

D. The material and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.

E. All TERF rolls must be unrolled and installed in the same direction, see diagram 11. Laying rolls in the opposite direction will cause color variations between the rolls.

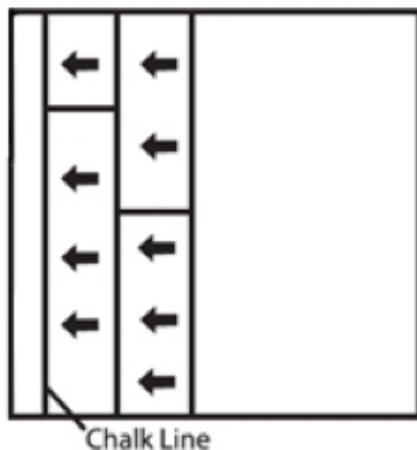


Diagram 11

F. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should unroll all cuts and allow to relax overnight. A bare minimum of two hours is required. Shaking the material once it is unrolled can help it to relax.

Installation - Roll Material

A. Make the assumption that the walls you are butting against are not straight or square. Using a chalk line, make a starting point for an edge of the flooring to follow. The chalk line should be set where the first seam will be located.

B. Remove the TERF from the shrink wrap and unroll it onto the floor. Lay the rubber on the floor in a way that will use your cuts efficiently. Cut all rolls at the required length, including enough to run up the wall a few inches.

C. If end seams are necessary, they should be staggered on the floor and overlapped approximately 3". End seams will be trimmed after acclimation period using a square to ensure they fit tightly without gaps.

D. After rough cutting, allow the cuts to relax in position for a minimum of two hours but 24 hours is preferred.

E. After allowing the flooring acclimate and relax you may begin the installation.

F. Align the first edge to the chalk line.

NOTE: it is very important that the first seam is perfectly straight.

G. Position the second roll with no more than a 1/8" overlap over the first roll at the seam. After adhesive is applied to substrate the material will be worked back to eliminate the overlap. This procedure will leave tight seams and eliminate any gaps. Care should be taken to not over compress the seam. Over compressed seams will cause peaking.

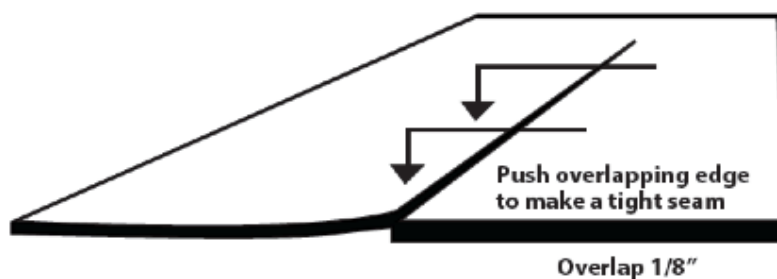


Diagram 12

H. Repeat for each consecutive sheet necessary to complete the area or those rolls that will be installed that day.

Installation - Glue Down (Laminated TERF Rolls)

A. After performing the above procedures, begin the application of the adhesive. We recommend E-Grip III, a one-component moisture-cured polyurethane adhesive. E-Grip III should not be mixed. It is specially formulated for use right out of the pail. Apply E-Grip III to the substrate using a 1/16" square-notched trowel.

B. Fold over the first drop along the wall (half the width of the roll).

C. Spread the adhesive using the proper size square-notched trowel. Take care not to spread more E-Grip III than can be covered with flooring within 30 minutes. The open time of the adhesive is 30–40 minutes at 70°F and 50% relative humidity.

NOTE: Temperature and humidity affect the open time of the adhesive. Temperatures above 70°F and/or relative humidity above 50% will cause the adhesive to set up more quickly. Temperatures below 70°F and/or relative humidity below 50% will cause the adhesive to set up more slowly. The installer should monitor the on-site conditions and adjust the open time accordingly.

D. Lay the flooring into the wet adhesive. Do not allow the material to “flop” into place; this may cause air entrapment and bubbles beneath the flooring.

E. Immediately roll the floor with a 75–100 lb. roller to ensure proper adhesive transfer. Overlap each pass of the roller by 50% of the previous pass to ensure the floor is properly rolled. Roll the width first and then the length.

F. Fold over the second half of the first roll and half of the second roll. Spread the adhesive. Spread the adhesive at right angles to the seam to ensure 100% coverage across the seam. Roll the flooring.

G. Continue the process for each consecutive drop. Work at a pace so that you are always folding material back into wet adhesive.

H. Do not allow E-Grip III to cure on your hands or come in contact with the finished flooring. Immediately wipe off excess adhesive with a rag dampened with mineral spirits! Cured adhesive is very difficult to remove from hands. We strongly suggest wearing gloves while using E-Grip III!

I. In some instances, it may be necessary to weigh down the seam until the adhesive develops a firm set. Keep traffic off the floor for a minimum of 24 hours. After installation, floor should be free from rolling loads for a minimum of 48-72 hours. Foot traffic and rolling loads can cause permanent indentations or bond failure in the uncured adhesive.

Roll and Tile Good Warranty

Alla iBuildGreen golv är garanterade av iBuildGreens leverantörer att vara fri från tillverkningsdefekter på både material och yrkesskicklighet. Om sådana defekter upptäcks, så måste kunden meddela iBuildGreen antingen genom kontrakterad installatör, distributör eller direkt till iBuildGreens kundkontakter. Om upptäckt av defekt sker inom fem år under normala, icke felaktigt nyttjande, så är den enda compensationen som kan ställas mot säljaren att byta ut eller reparera den defekta delen av produkten.

Everlast garanti täcker inte missnöje på grund av otillbörlig installation, normalt slitage eller kvalité från installation förväntad från användning eller installationsmiljö, skada från otillbörligt underhåll eller användning samt generellt missbruk, inkluderande och utan begränsning: brännskada, skåra, rispa, skrapande, skavande, skada från rullande laster, skada från rengöringsprodukter som inte rekommenderats av iBuildGreen, lätta nyansvariationer eller nyansvariationer på grund av exponering för direkt solljus eller skillnader i färg mellan prover eller fotografier och det faktiska golvet.

Exkluderat från Garanti

Dessa garantier är ej tillämpliga till följande:

1. Exakt matchning av nyans, färg eller mönster.
2. Varje uttryck eller implicerat löfte gjort av en säljare eller representant.
3. Reva, brännmärke, skåra eller skada på grund av otillbörlig installation, otillbörlig användning, eller otillbörlig rengöringsprodukter eller underhållsmetoder.
4. Slitage från stolar eller annat möblemang utan ordentligt golvbeskydd kommer upphäva garantin. Omsorg ska beaktas för att skydda golvet från skada genom att använda beskyddande fötter av god kvalité för stolar, bord och annat möblemang. Underlägg för stol kan krävas för stolar med hjul.
5. Arbetskostnad för installation för original- eller utbytt material.
6. Realisation av "andra hand", "utförsäljning" eller andra irreguljära (icke-första-kvalité) golvmaterial. Avseende "andra hand" eller "utförsäljning", så är sådant material sålt i "befintligt skick" och Everlast ger inga garantier alls, direkta eller implicerade med hänsyn till detta, inkluderat garantier för köpvärde eller lämplighet ämnat för ett specifikt syfte.
7. Problem orsakade av fukt, hydrostatiskt tryck eller alkalier i underlager/undergolv.
8. Problem orsakade av användning, underhåll eller installation som motsätter Everlast specifikationer, rekommendationer eller instruktioner.
9. Material installerad med uppenbar defekt.
10. Skada på golvprodukter från höga klackar eller spikklackar.
11. Skada eller missfärgning av golvprodukter från gummimattor, mattor med undersida av gummi eller bildäck.
12. Installation av Everlast produkter med klister/fogmassa annan än det som rekommenderas av Everlast.
13. Blekning och/eller missfärgning som resultat av direkt eller glasfiltrerad exponering mot kraftigt solljus penetration och ultravioletta strålar.

14. Material som inte är installerad eller underhållen så som rekommenderad av Everlast.
15. Skada på golvprodukter från lastpallstruck och trafik med motorsläp.
16. Miljöer där produkten kommer att exponeras för djurfett, vegetabiliska oljor, flott eller petroleum baserade material (t.ex. kommersiella kök eller bilverkstad).
17. För tidigt åldrande och förfall från exponering mot spikar och skridskoblad.
18. Skillnader i färg mellan produkt eller fotografi.
19. Avvikelser i densitet (buckling) mellan produkt och prover/fotografi.

Dessa garantier gäller över alla andra garantier avseende Everlast, direkta eller implicerade. Everlast är inte vara ansvarig för tillbud eller följdsekventiella skador som kan resulteras från en defekt. Vissa länder tillåter inte exkluderande eller begränsningar av tillbud eller följdsekventiella skador, så ovan begränsning eller exkluderande kanske inte är applicerbart för dig. Dessa garantier ger dig specifika rättigheter och du kan också ha andra rättigheter som varierar beroende på land. För att veta dina legala rättigheter i ditt land, konsultera med din lokala konsumentombudsman eller lokal jurist.