

EVERLAST[®]
SPORTS SURFACING

with



1" UltraTile[™] (Patent No. 6,623,840)

INSTALLATION AND MAINTENANCE MANUAL

Manufactured in the U.S.A. by:

ecore[™]
— INTERNATIONAL —

888.383.7655 – www.everlastsportssurfacing.com

Revised on 11/17/11 to
add Green Cleaners.
Supersedes all previous
versions. Check website
for updates.

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BASE PREPARATION

I. RECOMMENDED INSTALLATION METHODS FOR 1” ULTRATILE

INTERIOR INSTALLATION		
	24”x24”x1”	
Surfaces	Dowels	Full Glue
Concrete	R	A
Asphalt	R	A
Plywood	R	A
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 ECORE’s technical department toll free at 1.888.383.7655.

II. TOOLS / MATERIALS REQUIRED

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Two tape measures - 25’ and 50’ 2. Chalk line - white only! 3. Saber saw (Jig saw) or band saw 4. Blades for saber saw (7-10 teeth per inch, wood type) 5. Utility knife with heavy-duty blades 6. Framing square/metal straightedge 7. Silver or gold color paint pencils 8. Standard size caulk gun 9. 4” slot blade screwdriver 10. Notched trowels -1/16” square notch; 2 minimum plus 1 for each additional 400 sq. ft. 11. Safety glasses 12. 1-1/2” flexible putty knife | <ol style="list-style-type: none"> 13. Coveralls 14. Kneepads 15. Solvent safe rubber gloves, long cuff style 16. Rags 17. Trash bags 18. Push broom or shop vac 19. Mineral spirits 20. Installation instructions 21. String line 22. Cutting table (shipping pallet) 23. Dustpan 24. 2-3 lb. hand sledge hammer or rubber mallet 25. 2’x 4’ to use as tapping block |
|---|--|

III. SITE WORK

NOTE: Dimensional tolerance for tiles is +/- 1/8”. 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.

BASE PREPARATION

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, 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.

IV. 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.

INTERIOR INSTALLATION

I. 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 measure 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 ECORE's recommended vapor retardants must be used. If the emissions exceed the limitations, the installation should not proceed until the situation has been corrected.
- C. If 1" UltraTile is being installed wall-to-wall, the tile may be doweled together, with the walls serving to contain the outer rows of tile. Tiles which 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 1/16" 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". 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.

II. 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.

INTERIOR INSTALLATION

- 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 or use a dowel setting tool available from ECORE International™. Install dowels in enough tiles in this manner to lay one course line.

III. 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 always 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 tile 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.

IV. LAYING THE SECOND AND SUBSEQUENT TILE COURSES

- 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.

INTERIOR INSTALLATION

V. 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 infield 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.

VI. ADHERING THE OUTER COURSE AND RAMPS

- 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° 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 1/16" 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. If you have questions about installation techniques or anything else regarding EVERLAST 1" UltraTile, call ECORE toll free at 1-888-383-7655.

MAINTENANCE

IMPORTANT INFORMATION FOR THE INSTALLER

**ECORE recommends
our environmentally friendly cleaners (ECORE Green Solutions line)
for EVERLAST SPORTS SURFACING WITH NIKE GRIND**

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

ECORE Green Solutions, E-Cleaner
ECORE Green Solutions, 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. Ecore International™ 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.

MAINTENANCE

Steps	Cleaning Product	Mixture	Equipment
Initial Cleaning	ECORE Green Solutions, E-Cleaner	10 oz./gal. water	Soft nylon brush or approved pad*
Daily Cleaning	ECORE Green Solutions, E-Cleaner	2-4 oz./gal. water	Soft nylon brush, or microfiber mop
Heavy Soil & Restorative Cleaning	ECORE Green Solutions, E-Cleaner or E-Strip	16 oz./gal. water	Approved pad*

* Please contact ECORE's Technical Department for guidance on pad selection. 800-322-1923.

I. CLEANING PROCEDURES

1. Initial Cleaning

- a. Remove all surface soil, debris, sand and grit by sweeping, dust mopping or vacuuming with a high CFM vacuum. For large areas, use auto scrubbers to clean floors.
- b. Scrub floor with ECORE Green Solutions, E-Cleaner (10 oz./gal. of water), using buffer or auto scrubber with a soft nylon brush or an approved pad. Avoid flooding the floor.
- c. Pick up solution with a wet vacuum. Rinse with clean water, picking up the rinse water with a wet vacuum and allow to dry thoroughly (6-8 hours).

2. Daily/Regular Cleaning

- a. Sweep, dust mop or vacuum floor to remove surface soil, debris, sand and grit.
- b. Damp mop with a microfiber mop or auto- scrub using an approved pad with ECORE Green Solutions, E-Cleaner (2-4 oz./gal. of water).
- c. Mop again with clean water to remove residue.

3. Restorative Maintenance

- a. Sweep and dry vacuum floor thoroughly.
- b. Heavy scrub floor with ECORE Green Solutions, E-Cleaner (10 oz./gal. of water) or E-Strip. This cleaning may be performed with an auto scrubber or rotary scrubber.
- c. Vacuum soiled solution with a wet/dry vacuum.
- d. Rinse with clean water.
- e. Pick up solution with wet vacuum.
- f. Allow floor to thoroughly dry.

4. Heavy Soil

- a. Remove as much surface soil, debris, sand and grit as possible by sweeping, dust mopping or vacuuming.
- b. Scrub floor with ECORE Green Solutions, E-Cleaner or E-Strip, using a buffer or auto scrubber with an approved pad.
- c. Pick up solution with a wet vacuum, rinse with clean water and allow to dry thoroughly (6-8 hours).

WARRANTY

ECORE International (the “Seller”) warrants that the UltraTile™ surfacing system will be free from defects in materials and workmanship.

What does the warranty cover?

- Surface wear due to ordinary abrasion from pedestrian traffic will not penetrate the wear course of the surface.
- The tiles, when installed according to the manufacturers’ specifications, will ensure the surface remains fixed and functional.

How long does the warranty coverage last?

This is a 15 year limited warranty, prorated as outlined in the warranty coverage schedule shown below. This warranty may be transferred with the property.

What will we do?

Any segment of an UltraTile surface that meets the warranty criteria will be repaired or replaced, at the Seller’s option and in conjunction with the warranty coverage schedule below.

How do you submit a warranty claim?

A warranty claim should be made directly to the Seller. Make claims via telephone by calling 800-322-1923. Please provide the following information: a description of the claimed defect and the date the defect was discovered, photographic images (if applicable) of the claimed defect, the date of the original installation, the project name and your name, address and phone number. The Seller will provide notification of any additional information and physical evidence that may be required to process your claim.

Warranty Coverage Schedule:

The Seller shall be responsible for 100% of the cost of the repair or replacement of any product found to be defective or not in compliance with the warranty herein within the first six (6) years following the original shipment of the product. Where any product is found to be defective or not in compliance with the warranty herein more than six (6) years following the original shipment of the product, the Seller shall only be responsible for a portion of the cost of the repair or replacement of such products as follows (and the buyer shall bear and pay the remaining portion of such costs):

Number of years from date of original shipment to date of claim

Percentage of purchase price of product for which Seller is responsible

0-6 -----	100%
More than 6, but less than 7 -----	60%
More than 7, but less than 8 -----	40%
More than 8, but less than 9 -----	30%
More than 9, but less than 10 -----	20%
More than 10, but less than 12 -----	10%
More than 12, but less than 15 -----	5%

WARRANTY

Warranty Exclusions

This warranty does not cover:

- Product failure caused by accidents, misuse, natural disaster, vandalism, improper installation or maintenance and the like (see installation, care and maintenance instructions).
- Color change caused by exposure to UV and/or normal abrasion from pedestrian traffic.
- Failure due to improper sub-surface preparation.
- Resilient flooring may suffer visible damage as a result of extreme high forces (up to 2000 pounds per square inch). Common contributors of this type of force include but are not limited to stiletto or high heels, as well as narrow tipped chair supports. UltraTiles are not designed to perform under such concentrated high pressure.

ECORE International will not accept claims for damage caused by extreme high forces.

Additional Considerations:

- The Seller's liability is limited to the material and transportation costs of repair or replacement of the product at the Seller's option. The Seller shall be responsible for installation costs and the costs of other work in connection with such repair and replacement only if such work was performed by Seller in the original installation. Where UltraTile is installed only in high traffic areas or installed in combination with other surfacing products not sold by the Seller, such UltraTiles are excluded from this warranty.
- In the event of repair, replacement, or refinishing under this warranty, the warranty applicable to the replacement material or to the repaired or refinished products will extend only for the time remaining under the original warranty.
- The Seller reserves the right to discontinue or change any design or color of any products at any time and without notice or liability. If, for any reason, products of the type originally purchased are no longer available at the time a warranty claim is made, Seller may substitute another product determined by Seller to be of comparable quality and price.
- THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

- Your exclusive remedy for any breach of warranty is as set forth in this warranty. This warranty gives you specific legal rights. You may have other rights which vary from state to state and province to province.
- The UltraTile warranty shall not cover dissatisfaction due to improper installation, damage from improper maintenance or usage, or general misuse, including and without limitation: burns, cuts, tears, scratches, scuffs, damage from rolling loads, damage from cleaning products not recommended by ECORE, slight shade variations or shade variations due to exposure to direct sunlight, or differences in color between samples or photographs and actual flooring.



888.383.7655 – www.everlastsportssurfacing.com

Manufactured in the U.S.A. by:



715 Fountain Ave – Lancaster, PA 17601

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