



ECOfit-Turf Plus Interlocking Tiles

Technical Manual

Installation · Maintenance · Warranty

Manufactured in the U.S.A.

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Supersedes all previous versions.
Check website for updates.

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INSTALLATION

I. REQUIRED TOOLS & MATERIALS

Tape Measure	Utility Knife	Utility Blade
Chalk Line	Framing Square	Push Broom or Vacuum
Metal Straight Edge	Paint Pens or Markers	Vacuum Cleaner

II. SITE CONDITIONS

- A. **Inspect all tiles for visual defects before beginning installation. No labor claim will be honored on material installed with visual defects. Any discrepancies must be reported immediately before beginning installation.**
- B. Care should be taken when moving large or heavy equipment over Interlocking Tiles due to the modular free-floating design of the system. Plywood or other rigid sheeting can be utilized to better disperse the load to avoid tile buckle.
- C. This product is intended for indoor use only. Approved temperature range of 55-75 degrees F.
- D. This product is not designed to be used under rolling loads or in exterior applications due to the loose lay design.
- E. 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.
- F. Install Interlocking Tiles over wood or concrete subfloors or firmly adhered resilient flooring, such as vinyl, linoleum, laminate, ceramic tile, and wood.
- G. Surface should be smooth to prevent irregularities, roughness, or other defects from transferring through to the new flooring.

III. MATERIAL STORAGE AND HANDLING

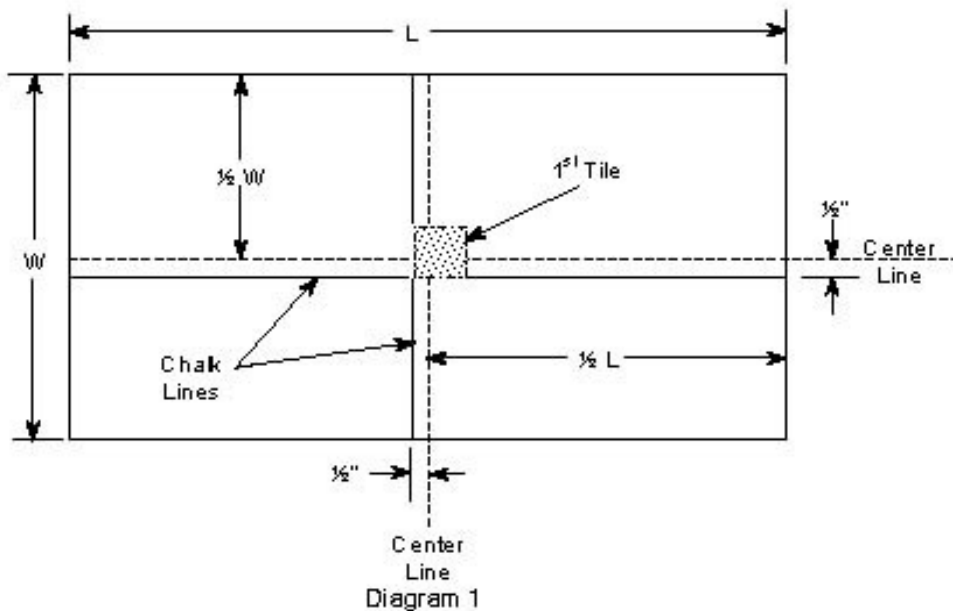
- A. Store the material inside in its original, unopened packaging with all labels intact.
- B. Inspect all materials for visual defects before beginning the installation. Verify the material delivered is the correct style, color, and amount. Any discrepancies must be reported to the retailer where the material was purchased.
- C. Remove tiles from cartons and allow them to sit in the area to be installed, at uniform room temperature 48 hours prior to installation.
- D. Install Interlocking ECOfit-Turf Plus Tiles so the directional markings stamped on the bottom of the tiles point in the same direction.

IV. Installation - Area Mat Configuration

- A. For a simple area mat installation, lay down the tiles to the desired length and width and interlock the tabs.
- B. For a finished look, trim the interlocking tabs from perimeter of the assembled the mat using a sharp utility knife and a metal straight edge.

IV. Installation - Wall-To-Wall Configuration

- A. Sweep area clear of all dust and loose debris.
- B. It is customary to begin tile installations from the center of the room.
- C. Determine a starting point for the first course of tile to best suit the site area. Because most walls are not straight or corners square, tile installation generally starts in the middle of the room, so measure the width and length of the space, divide the room into 4 equal quadrants and snap chalk lines that are perpendicular (90 degrees) to each other.
- D. Interlocking tiles must be installed in the same direction. Directional markings stamped on the bottom of the tiles must point in the same direction.
- E. Place the first tile's edges where the two perpendicular chalk lines meet.
- F. Hint: Adjust the starting point to balance the tiles side-to-side to not end up with small widths of tile against the walls.
- G. The last row of tiles will most likely have to be cut to fit, leaving 1/4" clearance at perimeter for expansion.
- H. Double stick tape can be used at perimeter edges and doorways.



MAINTENANCE

The following procedures are key in helping to preserve your Turf.

I.	Keep it clean
II.	Brush periodically
III.	Do not abuse
IV.	Report any problems promptly

I. Keep it clean

- A. Dust, pollen, and airborne pollutants

For lightly soiled areas, it may be necessary to use a rectangular microfiber mop with three (3) ounces of E-Cleaner per gallon of water. For heavily soiled areas, repeat procedure using a three (3) percent solution of household ammonia in warm water followed by a thorough rinsing with warm water. A wet vacuum can be used to remove excess water from the surface.

B. Stains and other blemishes

The first rule is promptness. It is always easier to clean up a fresh spill than one that has dried and hardened. Remove any solid or paste-like deposit with a spatula or table knife. Blot up excess liquids with paper towels, a clean cloth, or a dry absorbent, such as kitty litter or fuller's earth. Dry absorbents can then be vacuumed up afterwards.

Synthetic fibers have high resistance to staining. However, it is important to realize they are only one part of a sophisticated system of various components designed for overall performance. Some cleaning agents which are safe for the face fibers, can be harmful to other components of the turf system. Therefore, cleaning agents are grouped into two sets, one can be used in liberal amounts directly on the turf surface, and the second should only be applied by rubbing a cloth that is lightly soaked in the cleaner, in order to minimize penetration of possible harmful agents below the turf surface. In the first group of cleaners, which generally can be applied without any special precautions, are the following:

- A warm, mild solution of granular household detergent or any low sudsing detergent for fine fabrics. Use approximately one teaspoon to one pint of water. This will handle most waterborne stains including:

Coffee	Cola	Tea	Blood
Ketchup	Milk	Ice Cream	Urine
Mustard	Cocoa	Butter	Dye
Fruit Juices	Vegetable Juices	Glue	Latex Paint

- A three (3) percent solution of ammonia in water may be used in lieu of household detergent for more stubborn stains.
- Do not use cleaners that contain chlorine bleaches or caustic cleaners (pH above 9) or highly acidic cleanses (pH below 5). Use only neutral cleaners, such as E-Cleaner.
- Rinse area thoroughly with clean warm water to remove any traces of soap or ammonia.
- Blot up or wet vacuum excessive liquid.

The second group of cleaners, where agent must be applied sparingly and care taken to avoid penetration beneath the turf, are:

- Mineral spirits or a grease spot remover like perchlorethylene (dry cleaning solution) of the type sold by most variety stores and supermarkets. In general, cleansers in this category should handle most oil-based stains including:

Asphalt	Motor oil & grease	Chewing gum	Lipstick
Tar	Suntan oil	Crayon	Nail polish
Shoe polish	Cooking oil	Ballpoint ink	Floor wax

Caution: Mineral spirits and other petroleum-based solvents are flammable. Do not smoke or permit open flames near where these are being used.

Be sure the area is well ventilated where solvent cleaners are used and remember to use sparingly.

- C. Animal waste** - Neutralize with mixture of white distilled vinegar in an equal amount of water. Flush thoroughly with water after application. Vacuum up excess solution with a wet vacuum.

- D. **Chewing gum** - In addition to dry cleaning fluid, chewing gum can be removed by freezing. Aerosol packs of refrigerant are available from most carpet cleaning suppliers for this purpose, dry ice can be used. After freezing, scrape with a knife.
- E. **Fungus or mold spots** - A one (1) percent solution of hydrogen peroxide in water can be sponged on to the affected area. Flush thoroughly with clean water after application.

II. Periodic brushing

- A. Matting of fibers may occur in areas of high foot traffic, especially if fibers have become soiled with dirt and other airborne pollutants.
- B. Periodic “cross brushing” of the turf can help restore its aesthetic appearance. “Cross brushing” means all brushing activity takes place against the grain, nap, or sweep of the turf fibers. By brushing against the turf, the fibers are “fluffed up”. A brush with synthetic bristles should be used. Never use a brush with metal or wire bristles as these will change the turf fibers.

III. Do not abuse

Although your turf is made of tough, durable fibers, certain precautions should be taken to prevent damage to the turf.

- Lighted cigarettes cannot ignite the turf, but they can damage the turf by fusing the tips of the fibers together.
- Furniture and equipment with sharp or jagged edges should not be placed on turf as this may puncture or tear the turf.
- Water from sprinkler systems or hard water areas can leave mineral deposits on turf that may cause discoloration.
- Make sure turf is not exposed to reflected sunlight windows as this may fuse the turf fibers together.

Minor problems can become major problems quickly if not corrected. Any problem should be reported promptly to your turf dealer. Proper care and a maintenance program can enhance the aging, usefulness, and aesthetics of your ECOfit-Turf Plus.

WARRANTY

All ECOsurfaces ECOfit-Turf Plus Interlocking Tiles are guaranteed to be free from manufacturing defects on both material and workmanship. If such a defect is discovered, the customer must notify ECOsurfaces either through the contracting installer, distributor, or directly. If found to be defective within 5 years under normal non-abusive conditions, the sole remedy against the seller will be the replacement or repair of the defective goods; or at the seller’s option, credit may be issued not exceeding the selling price of the defective goods.

ECOfit-Turf Plus warranty shall not cover dissatisfaction due to improper installation, normal wear, 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 ECOsurfaces, slight shade variations or shade variations due to exposure to direct sunlight, or differences in color between samples or photographs and actual flooring.

I. Items Under Warranty:

1. WEAR – ECOsurfaces warrants that ECOfit-Turf Plus products will not wear more than 10% of its surface pile weight from normal abrasive wear for 5 years from the date of installation. Abrasive wear is meant fiber loss from the wear layer through normal abrasion, not crushing or flattening of the fiber surface pile or abnormal usage of the fiber surface.
2. EDGE RAVEL – ECOsurfaces warrants that ECOfit-Turf Plus products will not edge ravel along seams for 3 years from the installation of the product.
3. DELAMINATION – ECOsurfaces warrants that ECOfit-Turf Plus products will not delaminate for the 5 year warranty period of the fiber surface when maintained according to our published procedures. Delamination warranty excludes tiles that have been modified by cutting and exposed in open areas where not properly protected by an edge molding.

II. Limitations – This warranty does not include:

1. Disfigurement or damage caused by abnormal use or any damage not arising from a defect to ECOsurfaces product. For example, the warranty does not cover tears, burns, cuts, installation on stairs, or damage in transit.
2. Differential fading due to light exposure, shading, pile crush, dye lot differences, and soiling.
3. Any condition that would have had a visible defect upon inspection prior to installation.
4. Damage from any use for which the product was not designed.
5. The exact matching of shade or color.
6. Any express or implied promise made by any salesman or representative.
7. Tears, burns, cuts, or damage due to improper installation, improper use, or improper cleaning agents or maintenance methods.
8. Labor costs for installation of original or replacement material.
9. Sale of “remnants”, “seconds”, “off goods” or other irregular (non-first-quality) flooring materials. With respect to “seconds”, “off goods”, or “remnants”, such are sold “as is,” and ECOsurfaces makes no warranties whatsoever, express or implied with respect thereto, including warranties of merchantability or fitness for a particular purpose.
10. Problems caused by moisture, hydrostatic pressure, or alkali in the sub-floor.
11. Problems caused by uses, maintenance, and installation that are contrary to ECOsurfaces specifications, recommendations, or instructions.
12. Material installed outdoors.
13. Material installed with obvious defects.
14. Material that is not installed and maintained as recommended by ECOsurfaces.
15. Damage to flooring products from pallet jack and tow-motor or vehicular traffic.
16. Environments where the product will be exposed to animal fats, vegetable oils, grease, or petroleum-based materials. (i.e.: commercial kitchens or auto repair facilities.)
17. Premature wear and deterioration from spikes or natural grass cleats.
18. Differences in color between products and photography.

III. Obligations of Owner

1. The Owner must submit notice of all claims under this limited warranty to ECOsurfaces within the specified warranty period.
2. All areas in which flooring is to be replaced under the terms of this limited warranty must be cleared of all equipment, furnishings, partitions, and the like that have been installed over the flooring subsequent to the original product installation, at the owners expense.

V. Warranty Remedies

1. After receipt of proper written notice of the claim, ECOsurfaces will designate a representative to inspect product with owner's representative, and ECOsurfaces will meet all warranty obligations.
2. Subject to any monetary adjustment, as may be agreed to upon in writing by ECOsurfaces, and subject to the above warranty limitations and owner obligation, ECOsurfaces shall repair or, in its sole discretion, replace any designated ECOfit-Turf Plus products. These products must contain a defect covered by the above limited warranty and will be covered at no expense to the owner, excluding labor.
3. Any replacement will be made with a comparable product selected by ECOsurfaces from the then-current ECOsurfaces product line. However, ECOsurfaces obligation shall not include the reimbursing of any indirect costs or consequential damages incurred. By way of example, and not limitation, damages arising from interruption of use of the spaces affected, nor expenses in removing furniture from the affected area will be included in our obligation.

These warranties are in lieu of any other warranty expressed or implied. ECOsurfaces shall not be liable for any incidental or consequential damages which may result from a defect. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. These warranties give you specific rights, and you may also have rights which may vary from state to state. To know the legal rights in your state, consult your local or state Consumer Affairs Office or your State Attorney General.



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