



## ECOmax for Fitness 1" 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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## Base Preparation

### I. INSTALLATION SURFACES & METHODS FOR 1" THICK Tiles

INTERIOR INSTALLATION			EXTERIOR INSTALLATION		
	Methods for 1" Thick ECOmax for Fitness			Methods for 1" Thick ECOmax for Fitness	
Surface	Adhere to Quad Blok Only	Adhere to Quad Blok Plus Full Glue <sup>3, 5</sup>	Surface	Adhere to Quad Blok Only	Adhere to Quad Blok Plus Full Glue <sup>3</sup>
ECOsilence Sound Control Underlayment <sup>1</sup>	Approved	Approved	ECOsilence Sound Control Underlayment <sup>1</sup>	Not Approved	Not Approved
Concrete Slab	Approved	Approved	Concrete Slab		Approved
Concrete Pavers	Approved	Approved	Concrete Pavers		Not Approved
Asphalt	Approved	Approved	Asphalt		Approved
Plywood	Approved	Approved	Plywood		Not Approved
Flake board/OSB	Approved	Not Approved	Flake board/OSB		Not Approved
Compacted Gravel <sup>2,4</sup>	Not Approved	Not Approved	Compacted Gravel <sup>2,4</sup>		Not Approved
Wood or Tile	Approved	Bond test <sup>3</sup>	Wood or Tile		Not Approved
Resilient Flooring	Approved	Bond test <sup>3</sup>	Resilient Flooring		Not Approved
Carpet	Not Approved	Not Approved	Carpet		Not Approved

1. ECOsilence Sound Control Underlayment must be installed per applicable technical manual and full-adhered with ES-90 adhesive
2. Geo-textile fabric must be used between compacted gravel and tile
3. Bond test is recommended; installer responsible to determine suitability
4. Compacted Gravel sub-base may experience movement and subsidence. Subbase out-of-flatness, movement, subsidence, etc. are warranty exclusions.
5. Radiant heat requires a 1" Approved Surface in Quad Blok + Full Glue column.

### II. SUGGESTED TOOLS / MATERIALS

1. Saber Saw / Jig Saw
2. Safety glasses
3. Blades for saber saw (7-10 teeth / inch)
4. Framing square
5. Cutting table (shipping pallet)
7. Mineral spirits / denatured alcohol
6. Standard size caulk gun
8. Utility knife & blades
9. 1/8" square notch trowel (exterior)
10. 75-100 pound floor roller
11. String line

### III. SITE WORK

**NOTE:** Dimensional tolerance for tiles is +/- 1/8 in. for thickness and width. It may be necessary to periodically measure and hand select tiles to ensure course lines remain straight. Shading may vary and some hand selection is required to maintain maximum uniformity throughout site.

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- A. Site Elevation
  - 1. On grade installation - The finished installed height of the tile surface will be equal to or slightly higher than the perimeter grade unless approved by the project engineer.
  - 2. Above grade installation - Installation on existing decks or slabs requires perimeter reducers to transition back to floor elevation unless termination is at vertical surface.
  - 3. Tiles must be fully supported by the substrate. Substrate irregularities, unevenness, roughness, etc. should not be apparent after tile installation.
- B. Site Slope/Drainage
  - 1. Allow for 1" in 8 LF slope for drainage as applicable.
  - 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
    - 1. Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days. It must be fully cured and permanently dried. Care should be taken to provide for the stated slope. The surface should be flat to the equivalent of 3/16 in. (4.8 mm) in 10 ft. (3.0 m). A light broom finish is best for maximum adhesion. Use Portland-based patching and self-levelers that are moisture resistant and rated to withstand the RH moisture levels on the project.
  - 2. Paved Asphalt Base:
    - 1. Use a coarse asphalt aggregate mixture; the preferred aggregate size for the adhered system is 3/8" to 1/2". Avoid asphalt mixtures with high fines percentage. they may become less stable hot weather.
    - 2. Compact soil subgrade with two passes minimum using a 10-ton vibratory roller with no soft or moving areas upon completion. Also compact crushed stone base with two passes minimum using a 10-ton vibratory roller. Binder and wear courses of the asphalt must both meet 95% of the theoretical maximum density of the JMF (Job Mix Formula).
    - 3. Allow asphalt to cure 28 days before adhering ECOmax for Fitness.

**Asphalt**

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

- B. Radiant Heat
  - 1. Please refer to chart on page 2: Radiant heat requires an "Approved Surface" listed in the 1" Interior "Quad Blok + Full Glue" column.
  - 2. ECOsurfaces rubber flooring has an approximate R-Value of R1 per inch of thickness. Check with radiant system heat manufacturer for suitability. Turn off heat and maintain slab at 65F for 48 hours before, during and 48 hours after installation. Then bring radiant heat temperature up gradually.

**V. MATERIAL STORAGE AND HANDLING**

- A. Deliver the material to the job site in its original unopened packaging with all labels intact.

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- B. Shrink wrap is to secure and stabilize material on pallet during shipment only. Please remove shrink wrap from pallet immediately upon receipt, as damage to material could result from not doing so. After removing shrink wrap, do not expose material to sunlight. Store appropriately inside and securely cover for protection until installation.
- C. Inspect all material for visual defects before beginning the installation. Verify the material delivered is the correct type, thickness, and amount. Report any discrepancies immediately. ECOsurfaces will honor no labor claim on material installed with any visually apparent defects.
- D. The material and any adhesive must be acclimated at room temperature for a minimum of 48 hours before starting the installation.

**Interior Installation (Adhere to Quad Blok only)**
**GENERAL INFORMATION.**

- A. The subfloor on which tile is installed must be level, in good condition, and clear of dirt/debris.
- B. For installations requiring full adhesion to concrete, see section VI. (below) **FULLY ADHERED INSTALLATION**.
- C. Installation should not begin until after all other trades are finished in the area.
- D. 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.
- E. Store tiles and adhesive inside until used.
- 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. in thickness and width. It may be necessary to periodically measure and hand select tiles to ensure course lines remain straight. Shading may vary and some hand selection is required to maintain maximum uniformity throughout site.

**NOTE:** ECOmax for Fitness 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. No labor claims can be paid on material installed with visual defects.

**I. 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. 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.
- C. Place the first tile's edges where the two perpendicular chalk lines meet.  
Hint: Adjust the starting point to balance the tiles side-to-side and not end up with small cuts of tile against the walls.

**II. INSTALLATION with QUAD BLOKS (QuadBlok always required)**

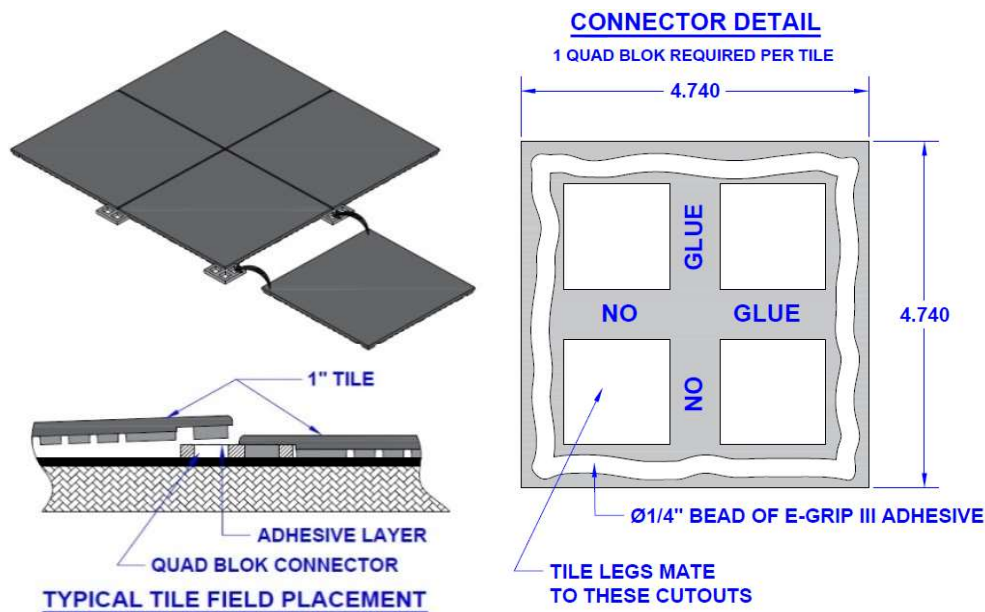
- A. Follow the Site Layout instructions to prepare the area for the installation of the 1" tiles.
- B. Once chalk lines are established, place the first tile at the intersection of two chalk lines, aligning adjacent edges of the tile with the chalk lines.

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- C. Apply a continuous 3/8" diameter bead of E-Grip III adhesive around the perimeter of the Quad Blok connectors. Working adhesive time is dependent upon environmental conditions.
- D. Fit the first tile with four prepared Quad Blok connectors by lifting each tile corner slightly, sliding the connectors under each corner and engaging the four corner legs of each tile with the respective apertures in the Quad Blok. Continue to sequentially lay the tile and to set the Quad Blok connectors along one chalk line until the first course of tile is complete.

**NOTE: Cut the Quad Blok connectors in half to secure full perimeter tiles**

- E. Complete the other three quadrants in a similar fashion.
- F. Roll floor with a 75-100 pound flooring roller after gluing tiles into Quad Bloks. Roll again in 1 hour.
- G. Allow 24 hours for adhesive to cure before opening area for foot traffic, and 72 hours prior to placing equipment.
- H. One 28-ounce tube of E-Grip III is required for approx. 40 of the 1" Quad Blocks.



**Note: Do not allow adhesive to cure on your hands or the flooring. Cured adhesive is very difficult to remove. We strongly suggest wearing gloves while using adhesive. Immediately wipe off excess adhesive with a rag slightly dampened with mineral spirits or denatured alcohol. Follow with a rag dampened with water.**

### III. INSTALLATION –OUTER COURSE TILE

- A. Tiles installed against a wall will most likely have to be cut to fit. Use a heavy-duty utility knife and a straight edge for a clean, neat surface cut followed by a saber saw using a 7-10 TPI wood cutting blade to finish cutting. Silicone spray lubricant can make cutting easier. A cutting table used to support tile during cutting is recommended; a standard shipping pallet may help.
- B. Do not leave any cut tile edge exposed to foot traffic. All tiles with a 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.
- C. Outer tiles which are not contained by walls should be adhered to the existing floor using ES-90 adhesive with a 1/8" square notched trowel. Set tiles and ramps in the adhesive bed.

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Perimeter tiles set in the adhesive bed should be connected to the next inner course of tiles with Quad Bloks.

- D. Allow 24 hours for adhesive to cure before opening area for foot traffic, and 72 hours prior to placing equipment.

**IV. INSTALLATION – ADA RAMPS & TRANSITIONS**

- A. Cut in the same way as the tiles. Corners should be miter cut.
- B. Tiles installed against a wall will most likely have to be cut to fit. The most accurate cuts are made using a heavy-duty utility or carpet knife and a straight edge. A saber saw (jig saw) using a 7-10 TPI wood cutting blade. A cutting table used to support the work is required during cutting. A standard shipping pallet works well.
- C. Cut away any protruding Quad Blok material.
- D. 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.

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

- E. Mark the areas where adhesive is to be applied and temporarily remove the ramps / transition.
- F. Spread ES-90 adhesive using a 1/8" square notch trowel. Do not spread more adhesive than can be covered in 30 minutes.
- G. 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 and roll with a 75-100 pound three section flooring roller.
- H. Use weight to evenly hold down the entire ramp / transition, including the small or toe side.
- I. After 24 hours, weight may be removed.

**NOTE:** Do not allow adhesive to cure on your hands or the flooring. Cured adhesive is very difficult to remove. We strongly suggest wearing gloves.

**NOTE:** Immediately wipe off excess adhesive with a rag slightly dampened with mineral spirits or denatured alcohol. Follow with a rag dampened with water. Use mineral spirits/ denatured alcohol sparingly. Saturating the rubber may cause darkening and the adhesive to be pushed into the pores of the rubber.

**V. *FULLY ADHERED* INSTALLATION – Mandatory for exterior installations. Quad Blok ALWAYS Required.**

**1. SITE PREP**

- A. Follow the site layout instructions to prepare the site area for installation. The tiles, accessories, and substrates 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.

**NOTE:** Dimensional tolerance for tiles is +/- 1/8" in thickness and width. It may be necessary to periodically measure and some hand select tiles to ensure that course lines remain straight. Shading may vary and some hand selection is required to maintain maximum uniformity throughout site.

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

NOTE: Use a 1/8" square notch trowel; ES-90 coverage rate is approx. 45 sq. ft. per gallon.

- B. For an *interior* fully adhered installation, Moisture must be measured using the RH Relative Humidity test method per the ASTM F2170 test standard. Moisture content should not exceed the allowable limit of the selected ECOsurfaces adhesive.

ES-90 – RH limit of 85% – normally selected  
 E-Grip 95 – RH limit of 95% – higher RH applications  
 E-Grip 99 – RH limit of 99% – highest RH applications

**The selected Portland-based patching and self-leveling materials must be moisture resistant and rated to withstand the RH moisture levels on the project.**

If RH levels exceed the selected adhesive's RH limit, stop and correct situation.

- C. In the event that a moisture mitigation system is required, it must conform to the ASTM F3010 Standard Practice for Two-Component Resin Based Membrane Forming Moisture Mitigation Systems for use Under Resilient Floor Coverings.
- D. Perform pH tests on all concrete floors. If greater than the allowable limit of the selected adhesive, neutralize prior to installation.
- E. Using a 1/8" square-notched trowel, apply the ES-90 adhesive slightly wider than the tile being placed. Coverage rates for the ES-90 using a 1/8" square-notched trowel are approx. 45 sq/ft gal on concrete. Do not spread more adhesive than can be covered in 30 minutes.
- F. **Quad Bloks must always be used and installed per Quad Blok installation section.**
- G. Place tiles with Quad Bloks into the fresh adhesive bed following pre-established course lines. If applicable, place ramps into the fresh adhesive in a similar manner.
- H. After placing tiles into adhesive bed, roll the tiles with a 75-100 pound three section flooring roller to ensure adhesive transfer to the back of the tile feet.
- I. Allow 24 hours for adhesive to cure before opening area for foot traffic, and 72 hours prior to placing equipment.
- J. 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.
- K. Corner ramps should be miter cut.

## Maintenance and Assigned Responsibilities

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**It is the Specifier's responsibility to:**

- Mandate covering and protection of floor from damage and construction debris until construction is complete.
- Assign to the appropriate party responsibility for the initial cleaning of floor following published procedures.

ECOsurfaces recommends our environmentally friendly line of maintenance products, including E-Cleaner.

**It is the General Contractor's responsibility to provide:**

- A building or installation area that is fully enclosed from the elements, e.g., finished roof, windows, doors, etc.
- Temperature that is climate controlled with a minimum uniform temperature of 65° F for 48 hours prior to, during, and after the flooring installation, for acclimation of flooring materials.
- Protection for those areas of the flooring that are subject to direct sunlight through doors or windows by having the doors or windows covered for such time until the installation of the material is complete.
- Protection for flooring from damage and construction debris by using an appropriate floor covering until such time that the recommended initial cleaning may be performed.

**I. Indoor Maintenance**

<b>Indoor Maintenance</b>	<b>Cleaning Product</b>	<b>Mixture</b>	<b>Diluted Coverage</b>	<b>Equipment</b>
Initial Cleaning	E-Cleaner	10 oz./gal. water	2,000 sq. ft./gal.	Vacuum. Scrub with soft Nylon Brush or 3M 4100 White or 4200 Beige Pad on low-speed scrubber. Vacuum up water. Dry
Maintenance Cleaning	E-Cleaner	2-4 oz./gal. water	6,000 sq. ft./gal.	Vacuum. Scrub with soft Nylon Brush or 3M 4100 White or 4200 Beige Pad on low-speed scrubber. Vacuum up water. Rinse and dry
Heavy Soil	E-Cleaner	10 oz./gal. water	2,000 sq. ft./gal.	Scrub with soft Nylon Brush or 4200 Beige Pad on low-speed scrubber. Vacuum up water. Rinse and dry
Restorative Cleaning <b>(CAUTION – E-Strip removes factory ECOguard urethane coating)</b>	E-Strip	16 oz./gal. water	1,000 sq. ft./gal.	Vacuum. Scrub with 3M 5300 Blue pad, Brown 7100, or Black 7200 pad on low-speed scrubber. Do <b>NOT</b> use a High Productivity Stripper Pad. Vacuum up water. Rinse and dry.

**1. Initial Cleaning**



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- a. Remove all surface soil, debris, sand, and grit by sweeping, dust mopping, or vacuuming with a high CFM vacuum.
- b. Scrub floor with E-Cleaner (10 oz. /gal. of water), using buffer or auto scrubber with a soft nylon brush or pad per Indoor table. 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 allowing it to dry thoroughly (6-8 hours).
2. Daily/Regular Cleaning
  - a. Remove all surface soil, debris, sand, and grit by sweeping, dust mopping, or vacuuming with a high CFM vacuum.
  - b. Scrub floor with E-Cleaner (2-4 oz. /gal. of water), using buffer or auto scrubber with a soft nylon brush or pad per Indoor table. 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 allowing it to dry thoroughly (6-8 hours).
3. Heavy Soil
  - a. Remove surface soil, debris, sand, and grit by sweeping, dust mopping, or vacuuming.
  - b. Scrub floor with E-Cleaner using a low-speed scrubber or auto scrubber with pad per Indoor table.
  - c. Pick up solution with a wet vacuum, rinse with clean water, and allow to dry thoroughly (6-8 hours).
4. Restorative Maintenance (CAUTION – E-Strip removes factory ECOguard urethane coating)
  - a. Remove surface soil, debris, sand, and grit by sweeping, dust mopping, or vacuuming.
  - b. Heavily scrub floor with E-Strip diluted per Indoor table. This cleaning may be performed with an auto scrubber or low speed scrubber with pad per Indoor table.
  - c. Vacuum soiled solution with a wet/dry vacuum.
  - d. Pick up solution with wet vacuum. Rinse with clean water and allow floor to dry thoroughly.
  - e. **CAUTION – A standard black pad** should be the most aggressive pad used. **DO NOT USE high-performance black pads such as 3M's 7300 series or floor damage may result.** ECOsurfaces assumes no liability in the event of damage to the rubber in the removal process. ECOguard is considered a permanent sealer and not intended to be stripped from the rubber as a standard procedure.
  - f. To re-apply sealer, see LOBADUR® 2K InvisibleProtect below.

## II. LOBADUR® 2K InvisibleProtect

**Description**

LOBADUR® 2K Invisible Protect is an interior, matte finish, 2-component waterborne coating.

**Tools / Materials Required**

Safety glasses  
 Latex or rubber gloves  
 Paint roller tray

Trash bags  
 Rags

LOBATOOL Roller Deluxe 120

**A. LOBADUR® 2K InvisibleProtect surface prep.**

1. An improperly prepared surface can act as a bond breaker and result in a project failure. It is important to remove all dirt, grease, wax, oil, paint, or other contaminants before applying the LOBADUR® 2K InvisibleProtect.

2. **Note:** The LOBADUR® 2K InvisibleProtect can be applied over the factory applied ECOguard finish after lightly stripping the ECOguard finish.

#### B. Precautionary Notes

1. Allow LOBADUR® 2K InvisibleProtect to cure for 24 hours before introducing foot traffic, and for 48 hours before cleaning or placing furniture.
2. If traffic or other activities need to be introduced earlier, protect surface as required.
3. Remove spills and drips immediately from other surfaces.
4. Apply each coat to entire space in one step rather than in sections for best results. Work from one side of room to the other with scrubbing motion and keep a wet edge.
5. Use microfiber pad to apply; use foam pad to cut in and for perimeter.
6. **Do not use string mops or other applicators to apply! The use of mops may result in a poor application and complete removal may be required.**
7. Full cure achieved in 5-7 days; extra coats extend cure time. See "Application" below.

#### C. Application of LOBADUR® 2K InvisibleProtect

1. Wait until adhesive is fully cured, and floor has been cleaned and it is fully dried.
2. Acclimate the Origins and LOBADUR® 2K InvisibleProtect to room temp. Do not apply at temperatures below 55°F.
3. Shake larger base container well.
4. Pour contents of small, .09 gal can of hardener into larger, base 0.91-gallon container (ratio of 10:1) and shake to mix. For smaller quantities, use ratio of 10:1 and shake to mix. Pot life: 2 hrs.



5. Apply using LOBATool Roller Deluxe 120 and paint tray. Coverage with LOBATool Roller Deluxe 120 roller is 400-500 sq. ft. / gal.



6. **NOTE: For a generic roller, use a 3/8" short nap microfiber roller. They are prone to under-application, lap lines and roller marks. Ensure enough LOBADUR® 2K InvisibleProtect is on floor for leveling agents to work.**

**NOTE: Avoid streaks, puddles, and lap marks. Do not thin. Do not add water.**

**NOTE: Maintain adequate ventilation during coating and drying process.**

7. Earliest recoating after 4-6 hours. Apply second coat at right angle to first.
8. Clean up immediately with water.
9. Light foot traffic after 24 hours; floor is still susceptible to scuffing / marring. Protect as required.
10. Plasticizer containing materials e.g., rubber furniture pads or chair mats, may lead to discoloration of finish. Use felt furniture pads.

#### D. Cleaning ECOsurfaces Coated with **Field-Applied LOBADUR® 2K InvisibleProtect**

Steps	Products	Dilute	Tools
Initial Cleaning	E-Cleaner	10 oz. / Gal Water	Microfiber Mop, Soft Nylon Brush, or Red pad
Daily/Weekly Cleaning	E-Cleaner	2-4 oz. / Gal Water	Microfiber Mop, Soft Nylon Brush, or Red pad
Heavy Soil Cleaning	E-Cleaner	10 oz. / Gal Water	Microfiber Mop, Soft Nylon Brush, Red or Black pad

**1. Initial Cleaning**

- A. Remove all surface soil, debris, sand, and grit by sweeping or vacuuming.
- B. Scrub with E-Cleaner and scrubber, brush, or pads from table above.
- C. Wet vac, damp mop and allow floor to dry.

**2. Daily/Weekly Cleaning**

- A. Remove all surface soil, debris, sand, and grit by sweeping or vacuuming.
- B. Scrub with E-Cleaner and scrubber, brush, or pads from table above.
- C. Wet vac, damp mop and allow floor to dry.

**3. Heavy Soil Cleaning**

- A. Remove all surface soil, debris, sand, and grit by sweeping or vacuuming.
- B. Scrub floor with E-Cleaner with a soft nylon brush or pads from table above, following dilution schedule above.
- C. Wet vac, damp mop floor and allow floor to dry.

**Note:** Nylon deck brush may be used to remove scuff marks or heavy soil from small areas.

**E. Stripping LOBADUR® 2K InvisibleProtect**

1. LOBADUR® 2K InvisibleProtect is difficult to completely remove and may require several attempts with the approved stripping pad and E-Strip. Anything used to chemically remove the sealer will jeopardize the integrity of the rubber.
2. Use 32 oz. (1 qt.) E-Strip / gallon cold water, a low-speed buffer, and a Black stripping pad.
3. Apply a liberal amount of diluted E-Strip to floor and allow to sit for 5-10 minutes. Work buffer from side to side until the LOBADUR is removed. This may require several attempts and effectiveness will be influenced by unevenness in the substrate.
4. **CAUTION – A standard black pad should be the most aggressive pad used. DO NOT USE high-performance black pads such as 3M’s 7300 series or floor damage may result. ECOsurfaces assumes no liability in the event of damage to the rubber in the removal process. LOBADUR® 2K Invisible Protect is considered a permanent sealer and not intended to be stripped from the rubber as a standard procedure.**
5. To re-apply the LOBADUR® 2K InvisibleProtect, please see “Coating Instructions” above.

## II. Outdoor Maintenance

Outdoor Maintenance	Cleaning Product	Mixture	Diluted Coverage	Equipment
Initial Cleaning	E-Cleaner	10 oz./gal. water	2,000 sq.ft./gal.	Vacuum or leaf blower, hose or power wash, or scrub with soft Nylon Brush or 4200 Beige Pad.
Maintenance Cleaning	E-Cleaner	2-4 oz./gal. water	4,000 – 6,000 sq. ft./gal.	Blow, vacuum or sweep loose debris and power wash or hose.
Periodic Cleaning	E-Cleaner	2-4 oz./gal. water	4,000 – 6,000 sq. ft./gal.	Vacuum or leaf blower, hose or power wash, or scrub with soft Nylon Brush or 4200 Beige Pad. Vacuum or squeegee dry.
Heavy Soil and Restorative Cleaning	E-Cleaner E-Strip	10 oz./gal. water 16 oz./gal. water	2,000 sq.ft./gal. 1,000 sq.ft./gal.	Power wash or scrub using 3M Brown 7100 or Black 7200 pad on low-speed scrubber. Do <b>NOT</b> use High Productivity Pad.
Power Scrubber	<ul style="list-style-type: none"> <li>Low speed (175-300 rpm) 17" rotary floor scrubber with brush / pad attachment</li> </ul>			
Auto Scrubber	<ul style="list-style-type: none"> <li>Unit with clear rinse feature and wet vacuum with wand pickup nozzle</li> </ul>			
Cold Water Pressure Washer	<ul style="list-style-type: none"> <li>Extensions and quick disconnect fittings for trigger gun</li> </ul> <p><b><i>CAUTION: Use all applicable PPE when using power washers. Use power washer least 18" from tile surface with the appropriate pressure and recommended 40° wash nozzle. Power washers can cause significant and permanent damage. Hire a professional if unsure regarding power washing safety or use.</i></b></p>			

## Warranty

All ECOsurfaces rubber flooring is 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 under normal non-abusive conditions, at the discretion of ECOsurfaces, the sole remedy against the seller will be to repair, to replace, or to issue a credit not exceeding the selling price of the defective goods. These warranties only apply to the original purchaser.

Please see the ECOsurfaces Warranty Guide for length specifics.

ECOsurfaces 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 ECOsurfaces, slight shade variations or shade variations due to exposure to direct sunlight, or differences in color between samples or photographs and actual flooring.

## Excluded from Warranty

These warranties do not apply to the following:

1. The exact matching of shade, color, or mottling.
2. Any express or implied promise made by any salesman or representative.
3. Tears, burns, cuts, or damage due to improper installation, improper use, or improper cleaning agents or maintenance methods.
4. Wear from chairs or other furniture without proper floor protectors will void the warranty. Care should be taken to protect the flooring from damage by using good quality protective feet for chairs, tables, and other furniture. Chair mats may be required under chairs with casters/wheels.
5. Labor costs for installation of original or replacement material.
6. Sale of "Seconds," "Off Goods," or other irregular (non-first quality) flooring materials. With respect to "Seconds" or "Off Goods," 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.
7. Problems caused by moisture, hydrostatic pressure, or alkali in the sub-floor.
8. Problems caused by uses, maintenance, and installation that are contrary to ECOsurfaces specifications, recommendations, or instructions.
9. Material installed with obvious defects.
10. Damage to flooring products from high heels or spike heels.
11. Damage to flooring products from rubber mats, rubber-backed mats, or rubber tires.
12. Installation of ECOsurfaces products with adhesives other than those recommended by ECOsurfaces.
13. Fading and/or discoloration resulting from heavy sunlight penetration and ultraviolet ray exposure from direct or glass-filtered sunlight.
14. Material that is not installed and maintained as recommended by ECOsurfaces.
15. Damage to flooring products from pallet jack and tow-motor 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 and skate blade exposure.
18. Differences in color between products and photography.
19. Embossing/density deviations between product and samples, photography.

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 what your legal rights are in your state, consult your local or state Consumer Affairs Office or your State Attorney General. For complete and latest warranty information, please see [www.ecosurfaces.com](http://www.ecosurfaces.com).



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