I. JOB SITE CONDITIONS

1. 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.
2. 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.

II. SUBFLOORS

1. Ecore Athletic PlyoTurf Rolls may be installed over concrete, approved Portland- based patching and leveling materials, and wood.

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

2. 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 well-ventilated air space below.
3. 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 luan are not considered to be suitable underlayments.

4. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days; they must be fully cured and permanently dried before installation.

III. SUBFLOOR REQUIREMENTS AND PREPARATION

1. Subfloors should 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.
2. 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).
3. 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.
4. 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.
5. 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.
6. 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 so it's 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.

7. Moisture must be measured using the RH Relative Humidity test method per ASTM F2170 standard. Moisture content should not exceed 85% RH. If the levels exceed the limitations, the installation should not proceed until the situation has been corrected.
8. 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.
9. 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.
10. 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.

IV. MATERIAL STORAGE AND HANDLING

1. Material should be delivered to the job site in its original, unopened packaging with all labels intact.
2. Roll material should always be stored laying down. Storing 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.
3. **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.**
4. The material and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.

5. All PlyoTurf Rolls must be unrolled and installed in the same direction. See diagram 1. The arrows on the Installing rolls in the opposite direction can cause color variations between the rolls.

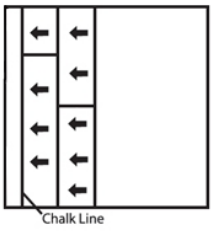

Diagram 1

6. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should unroll material and allow it to relax overnight. A bare minimum of two hours is required; 24 is preferred. Shaking the material once it is unrolled can help it to relax.

V. INSTALLATION – ROLL MATERIAL

1. You may begin the installation after allowing the turf to acclimate and relax.
2. 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.
3. Remove the rolls from the shrink wrap and unroll it 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.
4. 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.
5. Align the first edge to the chalk line. It is very important that the first seam is perfectly straight.
6. 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.

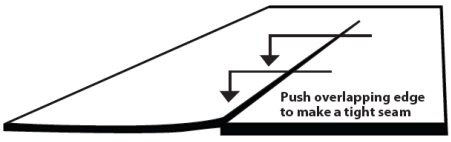

Diagram 2

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

VI. INSTALLATION - GLUE DOWN

1. 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.
2. Fold over the first drop along the wall (half the width of the roll).
3. 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.
4. 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.
5. 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.
6. 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. Roll again within the first 60 minutes.
7. 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.
8. Continue the process for each consecutive drop. Work at a pace so that you are always folding material back into wet adhesive.
9. **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! We strongly suggest wearing gloves while using E-Grip III as cured adhesive is very difficult to remove.**
10. 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.
11. Where a transitional molding is required, Ecore Athletic offers a straight transition option. Molding size is 48” x 4” x ¾” and may be secured with our E-Grip III adhesive or a high quality double-face tape.

Please Note: PlyoTurf is not a suitable surface on which to paint.

14. Material that is not installed and maintained as recommended by Ecore Athletic.
15. Damage to flooring products from pallet jack, 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 skates, 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 Ecore Athletic within the specified warranty period.
2. Claims must be submitted in writing and delivered to:

   Ecore International
   Attention: Claims
   715 Fountain Avenue
   Lancaster, PA 17601

3. 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.

IV. Warranty Remedies

1. After receipt of proper written notice of claim, Ecore Athletic will designate a representative to inspect that product with the Owner's representative and Ecore Athletic will meet all warranty obligations.
2. Subject to any monetary adjustment as may be agreed to upon in writing by Ecore Athletic, and subject to the above warranty limitations and Owner obligation, Ecore Athletic shall repair or, in its sole discretion, replace any designated PlyoTurf sold by it containing a defect covered by the above limited warranty, at no expense to the owner, excluding labor.
3. Any replacement will be made with a comparable product selected by Ecore Athletic from the then-current Ecore Athletic running line. However, Ecore Athletic obligation shall not include the reimbursing of any indirect costs or consequential damages, however, 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 be included in our obligation.

   These warranties are in lieu of any other warranty expressed or implied. Ecore Athletic 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.

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Flooring Solutions Beyond the Expected