



Blade Rolls

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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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 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 Blade Rolls may be installed over concrete, Portland-based patching and leveling materials, and wood.

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

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

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 a minimum of 18" of 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/OSB, Masonite and lauan 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. It must be fully cured and permanently dried.
5. Radiant heat – Blade is approved over radiant heat. Ecore rubber flooring has an approx. R-Value of R1 per inch thickness. Check with radiant heat mfr. for suitability. Turn off heat and maintain slab at 65F for 48 hours before, during and 48 hours after installation. 48 hours after installation, bring temperature up gradually. Temperature settings should be within the standards set forth by the radiant heat industry throughout the life of the floor.

III. SUBFLOOR REQUIREMENTS AND PREPARATION

1. 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.
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 a Portland-based patching compound.
4. All saw cuts (control joints), cracks, indentations, and other non-moving joints in the concrete must be filled with a 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 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 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.

7. 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 Ecore adhesive.

- a. E-Grip III – RH limit of 85% – normally selected
- b. E-Grip 95 – RH limit of 95% – higher RH applications
- c. E-Grip 99 – RH limit of 99% – highest RH applications

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

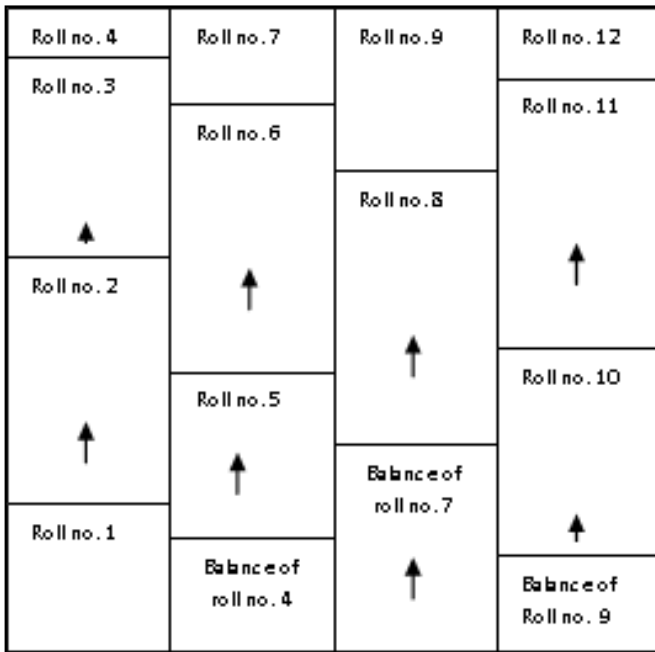
If outside, simply use E-Grip III

- 8. When 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. For installations requiring adhesion to concrete, perform pH tests on all concrete floors per ASTM F3441 Testing Concrete pH for Resilient Flooring. If greater than the allowable limit of the selected Ecore adhesive, neutralize prior to 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

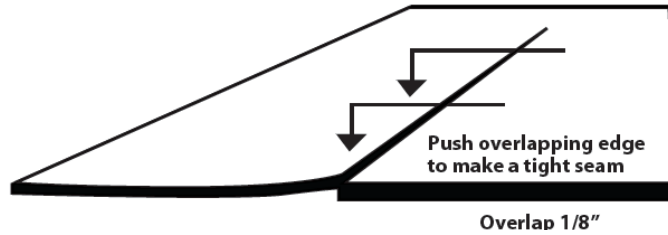
- 1. Material should be delivered to the job site in its original, unopened packaging with all labels intact.
- 2. Note: Shipping pallets, cradles, banding, etc. are not intended for storage. After 7 days, remove material from shipping pallets, cradles, etc. Rubber roll material should always be stored laying down; Storing rubber rolls 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.
- 3. Material should only be stored inside, protected from UV light, on a clean, dry, smooth surface. Rolls should be stored with the end of the roll on top, facing up. The end of the roll should not be positioned against an adjacent roll or surface, or welts may be created on that roll and the roll below.
- 4. Roll material is stretched slightly during the manufacturing process. At the job site, the installer should unroll all rolls and allow to relax overnight.

5. **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.**
6. The material and adhesive must be acclimated at room temperature for a minimum of 48 hours before starting installation.
NOTE: Custom roll lengths eliminate the possibility of the rolls being manufactured and numbered in the customer's desired installation sequence, and Ecore cannot be responsible for any resulting shading issues.
7. Install rolls in roll number order and in same direction; note "This Side Down" stamp at beginning of roll.



V. INSTALLATION – ROLL MATERIAL

1. 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.
2. Remove the roll 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. End seams should be staggered and overlapped approximately 3-6".
3. Allow the rough cuts to relax in position for a minimum of two hours.
4. Trim end seams **after acclimation** using a square for tight fit without gaps.
5. After proper acclimation and rough cuts are made and allowed to relax, you may begin the installation.
6. Align the first edge to the chalk line.
Note: it is very important that the first seam is perfectly straight.
7. 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.
8. Care should be taken to not over compress the seam. Over compressed seams will cause peaking.
9. 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.



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

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

METHOD 1 – GLUE DOWN

- A. After performing the above procedures, begin the application of the E-Grip III, a one-component moisture-cured polyurethane adhesive. E-Grip III should not be mixed; use right out of the pail. Apply E-Grip III to the substrate using a 1/16" square-notched trowel.
- B. Fold the first drop lengthwise (half the width of the roll).
- C. Spread adhesive using the proper notched trowel. Take care not to spread more E-Grip III than can be covered by flooring and rolled within 30 minutes. The open time of the adhesive is 30 - 40 minutes at 70° F and 50% relative humidity.

Note: The open time of adhesive is affected by temperature and humidity. High temperatures and high humidity will cause the adhesive to set quickly. Low temperatures and low humidity will cause adhesive to cure at a slower rate. The installer should monitor on-site conditions and adjust open time accordingly.

- D. Carefully 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. Roll again after 30-45 minutes.
- F. Fold over the second half of the first roll and half of the second roll. Spread the adhesive. (Spread at right angles to seam to prevent the adhesive from oozing up through seam. Gently lay (do not flop) flooring into wet adhesive. Roll the flooring.
- G. **In some instances, it may be necessary to weigh down/ brick the seams until the adhesive develops a firm set.**
- 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.

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

- I. Immediately wipe excess adhesive off floor with a rag slightly dampened with mineral spirits or denatured alcohol. Follow the mineral spirits/denatured alcohol with a rag dampened with water to remove the mineral spirits.

NOTE: Use mineral spirits/ denatured alcohol sparingly. Saturating the rubber with mineral spirits may darken the flooring and cause the adhesive to be pushed too deeply into the pores of the rubber.

- J. If some seams are gapping it is possible to hold them together temporarily with blue painter's 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. Ecore will not be responsible for residue left behind from tape of any kind.**
- K. 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. Floor should be free from rolling loads for a minimum of 72 hours. Foot traffic and rolling loads can cause permanent indentations or debonding in the uncured adhesive.

VI. Floor protection, Cleaning and Maintenance

IMPORTANT INFORMATION

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.

Ecore 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.

Blade Rolls Cleaning Instructions

Steps	Green Products	Dilution	Diluted Coverage	Pads & Brushes
Initial Cleaning	Ecore's E-Cleaner	10 oz./gal. water	2,000 sq. ft./gal.	Microfiber mop, Soft Nylon Brush or 3M 5100 Red Pad or equal
Daily Cleaning	Ecore's E-Cleaner	2-4 oz./gal. water	6,000 sq. ft./gal.	Microfiber mop, Soft Nylon Brush or 3M 5100 Red Pad or equal
Heavy Soil and Restorative Cleaning	Ecore's E-Strip	16-32 oz./gal. water	500-1,000 sq. ft./ gal.	3M 7100 Brown or 7200 Black stripper pad or equal

VIII. CLEANING PROCEDURES

1. Initial Cleaning
 - A. Remove all surface soil, debris, sand, and grit by sweeping, dust mopping, or vacuuming.
 - B. Scrub floor with E-Cleaner, using low speed rotary scrubber or auto scrubber with Microfiber mop, Soft Nylon Brush, or pad per table above.
 - C. Pick up solution with a wet vacuum, rinse with clean water, and allow 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.
 - B. Damp mop with a microfiber mop or scrub floor with E-Cleaner, using low speed rotary scrubber or auto scrubber with Microfiber mop, Soft Nylon Brush or pad per table above.
3. Heavy Soil

Hard-to-clean areas may require a higher concentration of Ecore's E-Cleaner and may even require restorative maintenance (below).
4. Restorative Maintenance

Restorative maintenance is not needed until there is a noticeable accumulation of dirt and contaminant build up. Normally this accumulation occurs in hard-to-reach and high traffic areas. A good maintenance program will minimize the frequency of restorative cleanings.

 - A. Sweep or vacuum to remove loose soil.
 - B. Heavy scrub using a rotary low-speed scrubber or auto scrubber with pad per table above and E-Strip diluted per table above.
 - C. Pick up solution with wet vac.
 - D. Rinse with clean water.
 - E. Allow floor to thoroughly dry.

Warranty

All Ecore Blade 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 Ecore either through the contracting installer, distributor, or directly. If found to be defective under normal non-abusive conditions, at the discretion of Ecore, 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 Ecore Warranty Guide for length specifics.

Ecore Blade Roll warranty shall not cover dissatisfaction due to improper installation, normal wear or quality of installation expected from the use or environment of 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.

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 salesperson 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 "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 Ecore 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 Ecore specifications, recommendations, or instructions.
9. Material installed with obvious defects.
10. Damage to flooring products from high heels or spike heels.
11. Damage or discoloration to flooring products from rubber mats, rubber backed mats, or car tires.
12. Installation of Ecore products with adhesives other than those recommended by Ecore.
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 Ecore.
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.
18. Damage from skate pics, heel strikes or inappropriate use of skates
19. High traffic areas where excessive wear occurs because of nature of use
20. Differences in color between products and photography.
21. Embossing / density deviations between product and samples, photography.

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

Manufactured in the U.S.A. by:



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