ecore | Commercial

Forest RX Rolls

INSTALLATION AND MAINTENANCE MANUAL

Manufactured in the U.S.A. by:

ecore

Revised on 02/26/19
Supersedes all previous versions.
Check website for updates and

Maintenance

Warranty

Installation

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. Kraft paper or plastic works well.
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. Forest Rx 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 a minimum of 18 inches 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, Masonite and luan are not considered to be suitable underlayments.

3. Concrete Floors – Concrete shall have a minimum compressive strength of 3000 psi. New concrete slabs should cure for a minimum of 28 days before installing Forest Rx. Concrete must be fully cured and permanently dry.

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 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.
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.

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.

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 on end. Storing Forest Rx laying down may cause welting, which causes permanent memory of the material. Rolls 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. Forest Rx rolls must be unrolled and installed in the same direction. Laying rolls in the opposite direction can cause color variations between the rolls.

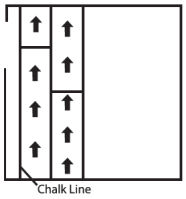

Diagram 1

6. Lay the rolls to provide as few seams as possible with economical use of materials. Match edges for color shading and pattern at seams. Be prepared to straight edge cut the side seams to ensure pattern consistency. For best results, the installer should unroll all rolls and allow to relax overnight.

NOTE: When handling or installing Forest Rx, special care should be taken not to sharply fold or crease the material. This can result in permanent visual damage to the PUR wear layer which is not covered under Ecore's product warranty.

V. INSTALLATION – Forest Rx ROLL MATERIAL

1. Assume the walls you are butting against are not straight or square. Use chalk line to 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 Forest Rx from the shrink wrap and unroll it onto the floor. Lay out in a way that will use cuts efficiently. Cut all rolls at the required length, including enough to run up the wall a couple of inches.
3. If end seams are necessary, they should be staggered on the floor and overlapped approximately 2". End seams will be trimmed after acclimation period using a square to ensure they fit tightly without gaps. Match and cut seams to maintain overall continuity of color and pattern.
4. After allowing proper acclimation and rough cuts are made you may begin the installation.
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 appropriate overlap required to maintain board pattern consistency. After seams are trimmed, the edges should fit snug with no visual gaps. Care should be taken to not over compress the seam. Over compressed seams will cause peaking.
7. Repeat for each consecutive sheet necessary to complete the area or those rolls that will be installed that day.

VI. INSTALLATION – Adhesive Application

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). Rolls are 6 feet wide and 30 feet long. When roll is folded over this will leave an exposed area of substrate that is 3 feet wide and 30 feet long.
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.

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.

4. 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.
5. 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.
6. Fold over the second half of the first roll and half the width of the second roll. Taking roll sizes into account, this will provide an exposed area of substrate of 6 feet wide and 30 feet in length per roll. Spread the adhesive, roll the flooring, and repeat for each consecutive drop.
7. Continue the process for each consecutive drop. Work at a pace so that you are always folding material back into wet adhesive bed.

NOTE: Never leave adhesive ridges or puddles. They will telegraph through the material.

8. Do not allow E-Grip III to cure on your hands or the flooring. Immediately wipe off excess adhesive with a rag dampened with mineral spirits! Cured adhesive is very difficult to remove from hands. We strongly suggest wearing gloves while using E-Grip III.
9. Hand roll all seams after the entire floor has been rolled.
10. Keep traffic off the floor for a minimum of 24 hours. Floor should be free from rolling loads for a minimum of 72 hours.

VII. INSTALLATION – Heat Welding

1. Groove seams in sheet flooring as required, and heat weld with manufacturers welding rod.
2. All seams must be heat welded. Prior to the two part skiving process, mix a solution of 1 part mild dish soap to 10 parts of cold water. Apply the liquid soap solution over a 4" wide area of the welded seam prior to skiving the first pass. This will allow for a smoother seam and help avoid scuffing or scratching of the rubber floor surface.
3. After the first pass, allow the weld rod to cool down for 10 to 20 minutes prior to re-application of the soapy liquid and final skive. For best results, use a Mozart Skive Knife to trim/skive the cold weld rod.

VIII. INSTALLATION – Sanitary Base

1. Remove the Forest RX from the shrink wrap and unroll it onto the floor. Lay the material on the floor in a way that will use your cuts efficiently. Cut all rolls at the required length.
2. If end seams are necessary, they should be staggered on the floor and overlapped approximately 2". End seams will be trimmed after acclimation period using a square to ensure they fit tightly without gaps.
3. After allowing proper acclimation and rough cuts are made you may begin the installation.
4. Note: it is very important that the first seam is perfectly straight.
5. Position the second roll so it is snug with the adjacent roll, but not compressed. After seams are trimmed, if necessary, the edges should fit snug with no visual gaps. Care should be taken to not over compress the seam. Over compressed seams will cause peaking.

6. Repeat for each consecutive sheet necessary to complete the area or those rolls that will be installed that day.
7. After the rolls are rough-fitted for the room, strike chalk lines 2” from the walls for Sanitary Base.
8. Where the chalk outline for the seam is marked, make square cut with a fixed, straight blade utility knife to prepare the Forest RX edge for the picture frame Sanitary Base installation. This allows the 2” space needed for the Sanitary Base to fit between the Forest RX material and the walls.
9. Prepare the 4mm x 2” rubber underlayment strip to be installed between the wall and the prepared edge of the Vinyl RX.
10. After performing the above procedures, begin the application of the adhesive. We recommend E-Grip III, a one-component moisture-cured polyurethane adhesive. Do not mix the E-Grip III; use it right out of the pail, and apply to the substrate using a 1/16˝ square notched trowel.
11. Remove the 4mm x 2” rubber underlayment and set aside. Fold over the first Vinyl RX drop along the wall (half the width of the roll). Rolls are 6 feet wide and 30 feet long. When roll is folded over, this will leave an exposed area of substrate that is 3 feet wide and 30 feet long.
12. 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. 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.
13. Lay the flooring and rubber underlayment into the wet adhesive. Do not allow the sheet material to “flop” into place; this may cause air entrapment and bubbles beneath the flooring.
14. 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. Hand roll all seams after the entire floor has been rolled.
15. Fold over the second half of the first roll and half the width of the second roll. Taking roll sizes into account, this will provide an exposed area of substrate of 6 feet wide and 30 feet in length per roll. Spread the adhesive, roll the flooring, and repeat for each consecutive drop.
16. Roll the 4mm x 2” rubber underlayment into the adhesive and thoroughly roll with a hand roller
17. Continue the process for each consecutive drop and 2” rubber underlayment. Work at a pace so that you are always folding material back into wet adhesive bed.
18. Let the adhesive cure for several hours before installing Sanitary Base.
19. Sanitary base should be used for the entire area (except at the doorway), or as specified. Gaps between the wall and subfloor must not be larger than 1/8 inch. Gaps larger than 1/8 inch must be filled and smoothed, using a suitable product, before Sanitary Base installation.
20. Ensure the wall is dry, smooth and clean. If dusty, use a water-based primer diluted 1:1 with clean, potable water. Apply using a small paint brush.
21. Leaving the wax paper on the sides of the roll, apply 4” Floor/Wall Contact Tape directly to the wall (1/8 inch up from the floor), pressing firmly into place. Then install 2” Floor/Wall Contact Tape to the top of the underlayment, tight to the intersection between the wall and floor, pressing firmly into place. Roll all tape with a hand roller before removing wax paper and before installing the Sanitary Base.
22. Dry-cut the Sanitary Base to size, mitering as required, and ensure a tight fit at all seams. Remove the wax paper from the 2” Floor/Wall Contact Tape and firmly press the sanitary base into the tape, keeping it tight to the flooring.
23. Remove the wax paper from the 4” Floor/Wall Contact Tape and firmly press Sanitary Base against wall.
24. Roll Sanitary Base with a hand roller to ensure a good bond.
25. To weld, groove all seams with a hand groover so as not to expose the rubber underlayment.
26. **Heat weld the flat seams** and **cold weld the vertical seams**.

27. Cold-welding the vertical seams: Apply masking tape 1/8” away from each vertical seam on both sides of the seam. Apply a bead of cold weld and smooth the cold weld with a rounded spatula. Remove the tape and smooth the edges where the tape ended. Let cold weld dry 8 hours before initial cleaning.
28. Note: Do not allow E-Grip III to cure on your hands or the flooring. Immediately wipe off excess adhesive with a rag dampened with mineral spirits! Cured adhesive is very difficult to remove from hands. We strongly suggest wearing gloves while using E-Grip III.
29. Hand roll all seams after the entire floor has been rolled.
30. Keep traffic off the floor for a minimum of 24 hours. Floor should be free from rolling loads for a minimum of 72 hours.

Maintenance

The Forest Rx product incorporates a polyurethane reinforcement, which protects the floor covering by resisting soiling and scuffing. Rubber feet or rubber mats may cause permanent staining to vinyl surfaces. Ecore does not recommend the use of equipment containing rubber feet or rubber backed mats. Combined with the superior closed surface finish, this enhanced protection allows the use of a polish-free maintenance regime. This protection ensures that the intensity of the maintenance and overall cleaning costs are significantly reduced. The following maintenance instructions are designed to maximize the benefits of the PUR, resulting in lower maintenance costs, without compromising the long-term appearance of your floor covering.

INITIAL CONSTRUCTION CLEAN

1. Remove all loose debris.
2. Ensure that all traces of adhesive are removed from the surface of the floor covering.
3. Mop sweep or vacuum to remove dust and grit.
4. Damp mop with a suitable neutral detergent such as ECF's E-Cleaner.
5. If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad

ROUTINE MAINTENANCE **-** The following recommendations are provided as a guideline, and the frequency can be changed to optimize the appearance.

DAILY

1. Mop sweep or vacuum to remove dust and loose dirt.
2. If required, spot mop to remove stubborn marks, with a neutral cleanser.

WEEKLY

1. Assess the appearance of the floor. Undertake the following as required:
2. Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.
   or
3. Heavier scuffing – spray clean using a floor maintainer and 1000 rpm plus rotary machine fitted with a suitable clean pad.

PERIODICALLY

1. Assess the appearance of the floor. If the floor has dirt build–up, machine scrub with a scrubber dryer (approx. 165 rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
2. Rinse thoroughly and allow to dry.
3. Dry buff to restore finish.
4. The maintenance regime requires the installation of an effective barrier matting system.
5. Cleaners and detergents should be diluted as per the manufacturers' instructions. For recommended products, see the Approved Maintenance Products sheet.
6. Always follow the Health and Safety guidance provided, and dilute cleaners and detergents in accordance with the manufacturer's instructions.
7. Fit protective feet to table and chair legs to prevent scratching.
8. These maintenance instructions are intended for the PUR Forest Rx floor covering, which has a polyurethane reinforcement.

NOTE: In most instances, the above maintenance regime will be sufficient to ensure your floor covering retains the optimum appearance. However where there is no mechanical means of maintaining the floor or should you wish to provide extra protection in heavily trafficked areas, a metalized floor polish should be applied. At the date of issue the data presented is correct. However, ECORE Commercial reserves the right to make changes which do not adversely affect performance or quality.

REGULAR CLEANING IS MORE BENEFICIAL TO THE FLOORCOVERING AND MORE COST-EFFECTIVE THAN OCCASIONAL HEAVY CLEANING.

Forest Rx APPROVED MAINTENANCE PRODUCTS					
PRODUCT	**ECORE Commercial** **877-258-0843** **Ecorecommercial.com**	**Hilway Direct** **Tel: 1-877-356-6748** **www.Hilway.com**	**PROCHEM** Tel 800-241-8180 www.prochem.co.uk	**ECOLAB** **Tel 800-352-5326** **www.ecolab.com**	**Johnson DIVERSEY** **Tel 800-558-2332 option 5** **www.johnsondiversey.com**
NEUTRAL CLEANER	**E-Cleaner**	**Neutral Cleaner**	**Neutra Clean**	**Oasis 100 or High Performance Neutral Floor Cleaner**	**Diversey Stride**
ALKALINE CLEANER		**Allsafe stripper**		**Maxx Dual Action**	**Diversey GP Forward**
GERMICIDAL CLEANER		**Disinfectant Cleaner**	**Power Pouch Disinfectant**	**Neutral Disinfectant Cleaner**	**Diversey J-512 (Food Areas)** **Diversey Virex II 256 (non-Food Areas)**
MAINTAINER/WASH & WAX		**Plus Cleaner/Maintainer**		**Easy Glow**	**Diversey Snapback Spray Buff**
DRY BRIGHT EMULSION POLISH	**E-Finish**	**High Gloss**	**Poly Finish**	**Monostar**	**Diversey Carefree**
SEMI BUFFABLE EMULSION POLISH		**Matte** **Satin** **High Gloss**		**Gemstar Laser**	**Carefree**
FULLY BUFFABLE EMULSION POLISH		**Matte** **Satin** **High Gloss**		**Gemstar Stratus**	**High Mileage UHS Floor Finish**
POLISH STRIPPER	**E-Strip**	**Allsafe Stripper**	**Pro Earth floor Strip**	**Maxx Floor Finish Remover**	**Diversey Pro Strip SC**
POWER CLEANER (SPOT CLEANER)		**Turbo Stripper**		**Maxx Dual Action**	**Diversey Spitfire**
The data presented is correct at the time of printing. However, Ecore Commercial reserves the right to update this information as and when necessary. For the latest information, please check our web site at www.Ecorecommercial.com, Providing this information does not imply any equivalence between each of the different manufacturers' products, or that other products would prove unsatisfactory.					

Warranty

Ecore Commercial guarantees our Forest Rx product to be free from defects in workmanship and materials affecting wearing properties, for a period of 5 years from the date of installation, provided that the product has been installed in accordance with the installation instructions issued by us. We guarantee this product to meet all Forest Rx published specifications for a period of 5 years from the date of installation.

Any defect must be notified to us in writing, and we reserve the right to inspect and investigate the defect. If after this investigation we consider the material to be defective, we will supply replacement material free of charge.

This warranty does not cover defects arising from any of the following:

- Excessive moisture
- Chemical Reaction
- Corrosion
- Extremes in temperature
- Abuse
- Abnormal usage above which the product is specified
- Staining or discoloration caused by rubber feet, rubber castors, or rubber backed mats

These warranties are in lieu of any other warranty expressed or implied. Ecore Commercial 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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877-258-0843 – www.ecorecommercial.com

Manufactured in the U.S.A. by:

ecore

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