



General Information

It is important that ENDUROMAX glue-down flooring products maintain proper temperature before, during, and after installation to minimize dimensional changes. The subfloor, all flooring material, and the adhesive must be conditioned at a constant temperature between 65°F (18°C) and 85°F (29°C) for 48 hours prior to, during, and 48 hours after installation. Thereafter, maintain a room temperature between 55°F (13°C) and 95°F (35°C). When using flooring from two or more cartons, make sure pattern and run numbers found on the carton are the same. This information is on the outside end of each carton. **Removal or installation of flooring products is always best if done by a licensed and insured flooring contractor.**

Tools and Materials

- Comfort and Safety: knee pads and safety glasses or goggles.
- Accuracy: square, tape measure, pencil, chalk line, spacers
- Performance: utility knife, cutting board, floor roller, moisture meter (In-Situ type or Calcium Chloride Test Kit), LVT compatible adhesive, trowel (see manufacturer for recommended adhesives, trowel type, and spread rate)

Preparing the Room

- Remove all furniture, appliances, and fixtures from the room.
- Remove all binding strips or other restrictive molding from doorways, walls, etc.
- Undercut wood door casings where possible so that flooring can be slid under it.

Preparing the Subfloor (Subfloor is the solid substrate beneath the floorcovering and is usually concrete or wood)

Concrete Substrate

- Concrete subfloors must be flat, dry, smooth, and free from dust, solvent, paint, wax, grease, asphalt sealing compounds, and oil or other bond breaking materials. New concrete must be cured for 90 days minimum.
- Moisture arising from new or old concrete can create elevated levels of moisture vapor emissions, hydrostatic pressure, and elevated levels of alkalinity. This combination is highly corrosive and will damage the floor over time. To avoid this problem, ensure that concrete subfloors are constructed according to the American Concrete Institution's guidelines (ACI's 302.2 Guide). To check current conditions, a calcium chloride test (ASTM F1869) and a RH test using in-situ probes (ASTM F2170) is necessary. If the level of vapor emissions / hydrostatic pressure exceeds 6lbs and /or 90% RH, you must use an LVT compatible moisture barrier for the install. Responsibility for determining if the concrete is dry enough for installation of the flooring lies with the owner and installer. **DO NOT INSTALL FLOORING IF MOISTURE TEST RESULTS EXCEED RECOMMENDED LIMITS. (WWW.RFCI.COM)**
- Completely remove all residual adhesive with an approved method on previously covered sub floors. Never use solvent-based adhesive removers. (www.rfci.com for best practices)
- New Build: all concrete, masonry, framing, drywall, paint, and other "wet" work should be thoroughly dry. The wall coverings should be in place and the painting completed except for the final coat on the base molding. When possible, delay installation of base molding until flooring installation is complete.

Wood Substrate

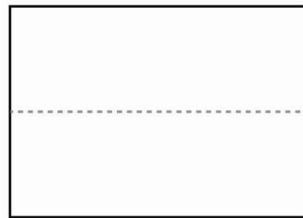
- NOTE: As with many other interior finish products, modification of existing structural components may be required for a successful installation.
- Nail or screw any areas that are loose or squeak. Wood panels should exhibit an adequate fastening pattern. They should be glued, screwed, or nailed as that system requires, using an acceptable pattern, typically, 6" along bearing edges and 12" along intermediate supports. Flatten edge swell as necessary and replace any water-damaged, swollen, or delaminated subflooring or underlayment.
- Wood subfloor panels should be a minimum of 1" or thicker and free of vertical deflection. All fasteners must be flush with the subfloor panels.
- Subfloor is considered "flat" if there is 3/16" or less drop in a 10' radius or 1/8" or less in a 6' radius. Sand high areas or joints. Fill low areas with a manufacturer approved patch or self-leveling latex compound.
- Basements and crawl spaces must be dry. Use of a 6 to 12 mil black polyethylene membrane is required to cover 100% of the crawl space earth. The crawl space clearance from ground to underside of joist should be no less than 18" and perimeter vent spacing should be equal to 1.5% of the total square footage of the crawl space area to provide cross ventilation.



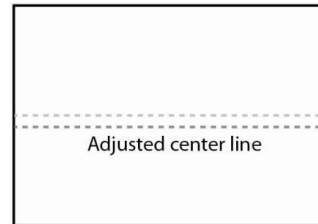
Removing Existing Floorcovering

ASBESTOS WARNING! DO NOT MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC “CUTBACK” ADHESIVES OR OTHER ADHESIVES. Installed resilient floor covering products and the asphaltic or cutback adhesives used to adhere them may contain either asbestos fibers and/or crystalline silica. The products in this carton DO NOT contain asbestos or crystalline silica. Avoid creating dust or inhalation of asbestos/crystalline dust as they can cause cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the previously installed product is a non-asbestos containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern the removal and disposal of material. See current edition of the Resilient Floor Covering Institute (WWW.RFCI.com) publication “Recommended Work Practices for Removal of Resilient Floor Coverings” for detailed information and instructions on removing all resilient covering structures. **Removal or installation of flooring products is always best if done by a licensed and insured flooring contractor.**

Floor Layout First, determine the installation direction of the planks. Floors are generally installed running in the long direction of the main room. Place a mark in the center of the floor at each end of the room and snap a chalk line between the marks. To avoid small narrow planks along the walls, divide the distance from the center line to the wall by the plank width (6”). If the remainder is less than 3 inches, adjust the center line one half width of a plank in either direction. This will provide a balanced layout with larger cut pieces at the wall.



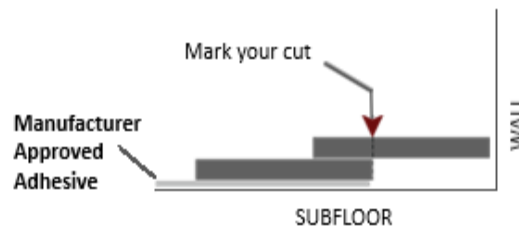
Center Line



Center line after adjustment

Finished Flooring Installation Spread the adhesive over one half of the floor up to the center line. Do not apply excessive adhesive. Start installing the plank along the center line. Complete each row, including cut pieces at the wall, before proceeding to the next row. Offset end joints by at least six inches and position planks in a random fashion, working out of three to four cartons for the best appearance. Position each plank lightly against the previous one by pressing it firmly into place without sliding it. Remember to avoid small cuts of less than 6 inches at the ends of each row and place the cut ends towards the wall. If it is necessary to adjust or remove a plank, use a heat gun to first warm the plank. Complete the opposite side of the room in the same fashion as the previous side.

Straight Cuts Place a loose plank directly over the top of the last full installed plank, making sure to line up all edges. Using a plank to measure the distance from the wall to the last installed plank, position the edge against the wall and mark the loose plank with a pencil where it meets the installed plank at the opposite edge from the wall. Next, place the marked plank on a cutting board. Using a square as a guide, score the pencil line carefully with a sharp knife, then break/snap (or cut) the plank along the score mark. Install plank with the cut edge toward the wall.



Irregular cuts Scribe plank to fit irregular shapes such as door trims, pipes, etc., and cut with a utility knife.

Immediately after Installation Roll the entire floor with a 75-pound 3 section roller if using a pressure sensitive adhesive (refer to adhesive manufacturers’ guidelines). Restrict to light traffic for the first 24 hours (or longer if adhesive manufacturer’s guideline requires). Replace the base moldings and return appliances and furniture to the room by rolling or sliding them over strips of hardboard. Seal all areas that may be exposed to surface spills (i.e., tubs, toilets, and showers) with silicone caulking.

- Remove all spacers, install baseboards, or quarter round to cover expansion joint. Install door transition moldings, (do not nail any moldings or transitions thru the resilient vinyl flooring).



- Sweep or vac up any remaining debris. Clean as necessary with a quality resilient vinyl floor cleaner.
- To prevent surface damage avoid rolling heavy appliances and furniture directly on the floor, use plywood or hardboard if necessary.

Plank repairs

- Warm the plank with a heat gun
- Using a sharp utility knife, cut through a corner of the damaged plank taking care not to cut into the subfloor below.
- Lift the end of the plank and continue heating
- As sufficient heat is provided the plank will release from the adhesive
- Lift out the entire plank and warm the exposed adhesive, install the new plank
- Set the new plank firmly into place with a hand roller
- The repair is complete

Tips & Warnings

- Sweep regularly, with a soft bristle broom.
- Use felt protectors under heavy pieces of furniture and chairs, and regularly clean them.
- Use protective mats at all exterior entrances. Do not use mats or area rug cushions constructed of rubber, vinyl, or latex backings.
- Spiked heels or shoes in need of repair can severely damage your floor.
- Replace hard plastic, metal casters or wheels on furniture with soft rubber casters or by using a protective mat under the casters.
- The sun's UV rays can change the color of your floor.
- Keep animal nails trimmed.
- Protect your floor when using a dolly for moving furniture or appliances. Never slide or roll heavy furniture or appliances across the floor. (Exterior walk off mats should be routinely maintained to avoid becoming a soil source.)

CARE AND MAINTENANCE

Sweep, dust mop or vacuum regularly to remove surface grit and dust. Use a damp cloth or mop with a quality resilient vinyl floor cleaner to clean up dirt and footprints, (be careful to avoid using excessive moisture). All spills should be cleaned up immediately. **CAUTION:** Planks are slippery when wet. Do not use a wet spray microfiber mop. Never use wax, polish, vinegar, abrasive cleaners or scouring agents as they may dull or distort the finish. Stiletto-styled shoes, that taper the heel to a small point, greatly increase pressure on all types of flooring and may cause dimples in any LVP or wood flooring and has caused chipping or cracking in ceramic tiles. Use protective pads under all furniture. Use exterior doormats at all entrance ways to keep dirt and moisture from being tracked in. Avoid use of interior rubber, foam, or plastic black mats as they may discolor the floor. To prevent slippage of area rugs, use an approved latex rug underlay from a reputable manufacturer. Do not allow pets with unclipped nails to scratch or damage the floor. Do not use steam cleaners in your care and maintenance. Avoid exposure to direct sunlight for prolonged periods of time. Use drapes or blinds to minimize direct sunlight during peak sunlight hours. It is a good idea to save a few planks in case of accidental damage. Planks can be replaced or repaired by a qualified professional.

WARRANTY INFORMATION

<i>Flooring Line</i>	<i>Residential</i>	<i>Light Commercial*</i>	<i>Commercial**</i>
Santorini Series	-	-	-
Beachwood Collection	Lifetime	10 Years	5 Years
Aspen Series	Lifetime	10 Years	5 Years
Captiva Series	6 Years	-	-
Barnwood Collection	6 Years	-	-
Captiva Collection	Lifetime	15 Years	7 Years
Caribbean Collection	Lifetime	Lifetime	15 Years
Shorewood Collection	Lifetime	Lifetime	15 Years



****Consult with manufacturer on eligibility of Light Commercial and Commercial applications. Not for Industrial applications.**

Manufacturing Defect: During the period of the warranty, this product will be free from manufacturing defects.

Wear Resistance: During the period of the warranty, this product's wear layer will not wear through to the decorative layer under normal use. Excessive wear due to improper maintenance or care is not a defect in the wear layer or product.

What is NOT Covered by this Warranty (item list is not exhaustive)

- Improper Installation: Material installed that is not installed in accordance with Installation Instructions is not a manufacturing related defect. Installer workmanship is not warranted. Labor cost to repair or replace material installed with visible imperfections or improper maintenance, which results in loss of gloss level.
- Damage resulting from use of strong detergents, chemicals, paints, dyes, mats, fertilizers, or other similar materials.
- Damage caused by moving appliances or heavy furniture without protecting the floor. (Always protect floor by using protective covering when moving heavy objects.)
- Damage or scratches resulting from accidents, casualty events, abuse, or improper usage (including damage from pet claws, teeth, urine etc.). Accidents, abuse, and improper usage are defined as, but are not limited to, damage caused by casters on furniture, rotating beater bars on vacuum cleaners, burns, cuts, impact from heavy and sharp objects, Stiletto-styled spike heels, cleats, etc., as well as damage resulting from unprotected furniture legs.
- Damage caused by leaks from appliances or plumbing.
- Construction damage after installation.
- Installation-related errors or damage including improper conditioning of jobsite and flooring materials.
- Fading, discoloration, or other damage due to excessive temperatures or sunlight. Radiant heat must not exceed 85 ° F (29°C) and be approved by the manufacturer for the use of their product with resilient vinyl flooring applications.
- Problems or damage due to excessive moisture or hydrostatic pressure from the sub-floor.
- Discoloration caused by use of latex or rubber-backed floor mats. Note: Some synthetic backed carpets contain latex in the manufacturing process that may discolor vinyl. Always use mats marked as "non-staining."
- Discoloration caused by rubber pads, rubber wheels, rubber tires, rubber rollers, automotive tires, etc.
- Flooring installed on stairs is excluded from warranty coverage and is to be glued down for safety.
- Installation of residential product in a commercial environment.
- ENDUROMAX® is not recommended for installations in sunrooms or constant wet areas.

If the product fails to perform as stated in the warranty, the manufacturer reserves the right to have the product inspected by a certified inspector. Should product be determined to be defective, the manufacturer reserves the right to either repair or replace the defective area with the same color, design, and grade product, if available. If product is unavailable or discontinued, the manufacturer reserves the right to select and supply similar material. If repairs or replacement of a section is necessary, all items must be cleared from the affected area after the original installation. The cost associated with the removal of those items will not be credited or reimbursed.

- Product costs will be covered for the length of warranty.
- Labor cost will not be covered.
- Warranty coverage for the replacement floor will be limited to the remaining portion of the original warranty.
- Any additional claims for loss of profit or incidental losses due to defective product will not be considered. Examples of incidental damages are replacement of subfloors or underlayment, trim moldings, disconnecting / reconnecting appliances, moving of furniture or any other losses deemed incidental by the manufacturer.

Failure to follow these procedures may result in voiding some of or all the warranty. This limited warranty is not transferable and extends only to the original end user. Please note: Some jurisdictions do not allow exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitation and exclusion may not apply to you. This warranty gives you specific rights and you may also have other rights, which vary from state to state.