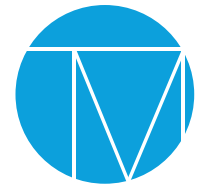


OZOTEC SHEET VINYL

PRESERVE, TRANSFORMATIONS + CONCOURSE INSTALLATION GUIDELINES + MAINTENANCE REQUIREMENTS



TO MARKET

FAILURE TO FOLLOW GUIDLINES + REQUIREMENTS MAY VOID WARRANTY

Before proceeding, visit tomkt.com for technical data sheets and/or needed documents.

GENERAL INFORMATION

THIS INSTALLMENT DOCUMENT IS FOR ALL OZOTEC COLLECTION PRODUCTS: PRESERVE, TRANSFORMATIONS + CONCOURSE.

Contact Technical Services for guidance about sub-floor testing and installation. All recommendations are based on the most recently available information. These instructions are for fully adhered installations of To Market heterogeneous sheet vinyl products: Preserve, Transformations and Concourse.

MATERIAL STORAGE AND HANDLING

1. Upon arrival of material, inspect for shipping damage and verify that the material received is correct.
2. Store all material upright on a flat surface in a warm, dry controlled interior area, avoiding outside storage containers. DO NOT store rolls on their side, flat or against a wall.
3. Cut order pieces should be rolled face out on a core to take to the job site. Otherwise, the roll will flatten or "oval," making it difficult for the material to lay flat when unrolled.
4. The sheet vinyl, adhesive, and room temperature must be kept at a minimum temperature of 65°F with a maximum of 90°F for at least 48 hours before, during, and 48 hours after installation.
5. All subfloor patching on and below grade must be done with a non-shrinking, water-resistant Portland cement patching compound.
6. Never install To Market sheet goods over residual asphalt-type (cut back) adhesive. It can bleed through the new sheet vinyl. Residual asphalt type adhesive must be removed or isolated from the finished flooring.
7. Material must be fully adhered using To Market R99 Premium Adhesive or Spraylock 3500 on porous or non-porous substrates.
8. All seams must be heat welded with To Market solid color weld rod. Chemical or cold welding is also acceptable, however, To Market does not supply this product, so seek an outside source.

JOBSITE EVALUATION AND SUBFLOOR PREPARATION

Careful and correct preparation of the subfloor is a major part of a satisfactory sheet vinyl installation. Roughness or unevenness of the subfloor will telegraph through the new sheet vinyl, resulting in an unsightly surface and excessive wear on high spots. Proper subfloor selection and preparation are essential for a trouble-free job. Contact To Market Technical Services with any questions at 570-856-1657.

INSTALLATION ON WOOD FLOORS

GENERAL

All wood floors must be suspended at least 18" above the ground. Adequate cross-ventilation must be provided and the ground surface of a crawl space must be covered with a suitable vapor barrier. Wood subfloors directly on concrete or installed over sleeper construction are not satisfactory for the installation of To Market products.

Wood subfloors must be covered with a minimum ¼" or heavier Underlayment Rated Panel to assure a successful finished flooring installation.

UNDERLAYMENT

Many times wood panel subfloors are damaged during the construction process or are not of underlayment grade. These panels must be covered with an approved underlayment. Underlayment panels provide a smooth surface on which to adhere the finished sheet vinyl. It must be understood that underlayment panels cannot correct structural deficiencies.

Radiant Heat components must have a 1/2" separation from OzoTec and the temperature never exceed 85°F. To Market will not accept responsibility for adhered installations over these subfloors. In all cases, the underlayment manufacturer or underlayment installer is responsible for all underlayment warranties. Contact To Market, Technical Services with any questions.

UNDERLAYMENT REQUIREMENTS

Panels intended to be underlayment should be specifically designed for this purpose. These panels should have a minimum thickness of ¼". Any panels selected as underlayment must meet the following criteria:

1. Be dimensionally stable.
2. Have a smooth, fully sanded face so the graining or texturing will not show through.
3. Be resistant to both static and impact indentation.
4. Be free of any surface components that may cause staining such as plastic fillers, marking inks, sealers, etc.
5. Be of uniform density, porosity and thickness.
6. Have a written warranty for suitability and performance from the panel manufacturer or have a history of proven performance.
7. Any unevenness at joints between panels must be sanded to a level surface. Gaps between panels, hammer indentations, and all other surface irregularities must be patched with a Portland cement based patching compound.
8. Particleboard, chipboard, construction grade, preservative or fire-retardant treated plywood, any hardboard or wafer board are not approved as underlayment due to their inadequate uniformity, poor dimensional stability and variable surface porosity.

INSTALLATION ON CONCRETE SUBFLOORS

GENERAL

Review and follow ASTM F710 guidelines on how to prepare concrete substrates to receive resilient flooring. New and existing concrete should be in compliance with current American Concrete Institute (ACI) specifications.

- Concrete subfloors must have a minimum density or 3500 PSI cured compressive strength and a water-to-concrete ratio of 0.45-0.50. It must be smooth, and free of all foreign materials including but not limited to: dust, solvent, paint, marker, wax, grease, oil, asphalt sealing compounds and other extraneous materials. The surface must be hard and dense, and free from powder or flaking.
- New concrete slabs must be thoroughly dry (90 days) and completely cured. Curing agents, surface hardeners and other additives may cause adhesive bonding failure and should be removed by sanding or grinding. DO NOT use solvents or chemicals to remove curing agents as bond failure from residue can occur.
- All concrete slabs must be checked for moisture before installing material. Follow ASTM F-1869 recommendations for performing calcium chloride test. Alternate Test F-2170 with a relative humidity level of 75% maximum.
- To Market sheet vinyl must never be installed where hydrostatic pressure or excessive moisture vapor emissions may exist. Moisture emission from subfloor cannot exceed 3 lbs. per 1,000 sq. ft. per 24 hours. To Market will not assume responsibility for sheet vinyl failure due to hydrostatic pressure or moisture vapor emission that exceed the levels stated above. When using To Market R99 Premium Adhesive or Spraylock 3500, the moisture level of concrete must be no greater than 8 lbs. /1000 sq. ft. /24 hours (2.27 kg /92.9 m² /24 hours) as determined by a calcium chloride test according to ASTM F-1869 test method and/or 90% RH as determined by ASTM F-2170 in situ relative humidity test. If both tests are performed the RH test is the qualifying standard. The pH level must be below 9 or material should not be installed.
- The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the sheet vinyl installer.
- Concrete floors with a radiant heating system are satisfactory, provided there is a 1/2" separation from OzoTec and temperature of the floor never exceeds 85°F.
- Holes, grooves, and other depressions must be filled with Portland cement based patching and leveling compound, troweled smooth and feathered even with the surrounding surface.

REMOVING OLD ADHESIVE

Old asphaltic or cutback adhesive residue will prevent proper adhesive bond, stain OzoTec flooring and must be removed, encapsulated or covered with suitable underlayment for proper installation.

- DO NOT use power removal devices on any asphaltic adhesive containing asbestos fibers. Consult EPA or local municipal codes for proper removal of any product containing asbestos.
- The use of solvent-based adhesive removers are not recommended.

NOTE: If D-Limonene citrus-based cleaners/removers are used, the subfloor must be thoroughly rinsed. If complete removal of old adhesive or covering with plywood is not possible, use a Portland Cement based leveling compound, following all manufacturers instructions.

INSTALLATION OVER EXISTING RESILIENT SHEET VINYL

Consult the Recommended Work Practices brochure from the Resilient Sheet vinyl Institute for specific instructions on removal of old resilient sheet vinyl. Visit www.rfci.com. To achieve maximum product performance, OzoTec products must not be installed over existing resilient sheet vinyl. In the rare cases where removal of the existing resilient sheet vinyl is not an option, the existing flooring must be covered with Portland Cement Based leveling compound or 1/4" or thicker approved plywood as referenced in the wood subfloor section.

NOTE: If the flooring contractor elects to install new sheet vinyl over an existing sheet vinyl, the flooring contractor assumes all responsibility as to the suitability and continued performance of the installation. To Market accepts no responsibility for material performance in any case where this decision has been made. If removal of existing resilient sheet vinyl is required, follow all recommended Resilient Covering Flooring Institute (RFCl) work practices at www.rfci.com.

WARNING: Do not sand, dry sweep, dry scrape, drill, saw, beadblast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, paint, asphaltic cutback adhesives, or other adhesives. These products may contain asbestos fibers or crystalline silica. Avoid creating dust. Inhalation of such dust is a 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 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. The Resilient Sheet vinyl Institute (RFCl) document "Recommended Work Practices for Removal of Resilient Sheet vinyls" should be consulted for a defined set of instructions addressed to the task of removing all resilient sheet vinyl. For more information, visit the Resilient Sheet vinyl Institute at www.rfci.com.

CUTTING AND FITTING

- It is imperative that the material, adhesive and job site be maintained at a minimum temperature of 65°F with a maximum of 85°F for 48 hours before, during and 48 hours after installation.
- If the material has been stored at colder temperatures, it will be necessary to unroll the material and allow it to relax over night before proceeding with the installation.
- If the job site is complex and requires a precise fit, traditional pattern scribing techniques should be used.
- The material may also be fit using direct scribing techniques. Once the material has been fit, it will be necessary to tube or lap half of the sheet back to expose the underfloor for adhesive application.
- Care should be taken when folding the material back. Always fold the material in a wide radius to avoid sharp kinks and creases, which may cause breaks in the product.

ADHESIVES

To Market's R99 Premium Adhesive or Spraylock 3500 Premium Spray Adhesive are to be used when installing OzoTec to maintain warranty. Follow all adhesive instructions and call To Market Technical Services with any questions.

ADHESIVE APPLICATION

1. After the material has been trimmed to fit the room, it should be tubed or lapped back to expose the underfloor.
2. On porous substrates, R99 PREMIUM ADHESIVE should be applied with a 1/16" wide, 1/32" deep spaced 1/32" apart notched trowel. Follow all adhesive instructions provided.
3. Spraylock 3500 can be used on both porous and non-porous substrates following all adhesive manufacturers instructions.
4. The adhesive must be spread over 100% of the exposed sub-floor, leaving no gaps or puddles. Uniform coverage can be maintained by keeping the trowel clean and properly notched following all adhesive instructions provided.
5. After the adhesive has been applied, roll the sheet forward into the adhesive to eliminate trapping air.
6. Do not drop or flop the material into the adhesive.
7. Roll the sheet vinyl with a three-section 150lb or a minimum 100 lb. floor roller in both directions.
8. After the first half of the sheet has been adhered and rolled, fold back the second half and repeat the procedure.
9. When using either R99 Premium Adhesive or Spraylock 3500 adhesives, the flooring should be rolled with a 100 lb. floor roller within one hour after the flooring is installed.
10. Wait 1–2 hours then re-roll again to insure full contact and to remove any trapped air.

CAUTION: Follow all adhesive instructions for open time; do not permit the adhesive to skin over or dry. Too much open time will result in insufficient bonding.

To Market's R99 PREMIUM Adhesive and Spraylock 3500 Adhesive were tested to be compatible with OzoTec and to maximize the product's performance. Using substitutes or failing to use approved adhesives as recommended can cut short product life, cause installation failure, and/or lead to a chemical reaction, such as hydrolysis, which will permanently damage the product and will void all applicable warranty coverage. Contact To Market Technical Services at 570-856-1657 with any questions.

SEAMING

All seams should be cut to net. DO NOT leave gaps at the seams and DO NOT cut seams tight where material will peak. Edges should be trimmed a minimum of 1/4" and the double cutting method employed when fitting to ensure precision. Heterogeneous flooring requires that the seams be cut using the trace cutting technique for accuracy.

1. Position the sheets in such a manner that the straight-edged top sheet will overlap the untrimmed bottom sheet and maintain the pattern match. Carefully trace along the edge of the top sheet with a utility knife with a sharp blade or a cutting tool designed for this purpose.
2. Remove the trimmed selvage edge of the bottom sheet.
3. Once the seams are cut, weigh the sheets and tube or lap back the sheets to expose the underfloor.
4. Apply the appropriate adhesive following manufacturers instructions on label the correctly notched trowel over 100% of the exposed underfloor.
5. After following adhesive instructions such as sufficient open time, trowel size and spread rate, lay the straight-edged sheet into the adhesive first and then lay in the second sheet.
6. Roll the adhered areas to within about 6" of the seam line with a 100 lb. three-section floor roller.
7. Roll the seam area with a hand seam roller to bring the seam edges level. Re-roll the entire adhered area with the 100 lb. floor roller.
8. Thoroughly clean the seam area and wipe dry.

HEAT WELDING FLOORING

1. OzoTec seams may be heat welded using coordinating solid color weld rod supplied by To Market for all Preserve Transformation + Concourse installations. Contrasting colors may be used if directed.
2. Wait at least 24 hours after initial installation to allow the adhesive to cure before grooving the flooring product to receive the heat weld rod.
3. Proper temperature of the heat-welding tool is critical to the success of this process. Heat welding is always dependent on speed of application and temperature. Practice on a scrap piece of material to determine optimum speed and temperature.
4. Use an automatic grooving machine for best results. A manual hand groover is acceptable if used by an experienced contractor. Groove to a depth 2/3 of the material making sure that both sides of the seam are grooved equally. DO NOT groove completely through the material.
5. Use a 4mm round narrow pre-heat speed nozzle (tip) designed for welding urethane finish flooring.
6. After the weld rod has cooled, trim the applied weld rod in two steps. Always use a trim plate with a sharp spatula trim knife for the first pass. Trim weld rod flush with the spatula knife, being careful to not gouge the vinyl surface.

CHEMICAL SEAM SEALING THE FLOOR

1. The seams will be sealed with MLG-33 and the VST-96 professional applicator tip.
2. Before sealing the seams, make certain all seams are clean, dry and free of adhesive contamination.
3. Fill the VST-96 applicator bottle at least 2/3 full of sealer. Tightly screw on the applicator tip.
4. Before using, check the flow through the applicator on a scrap piece of flooring.
5. Insert the fin into the seam cut and lightly squeeze the bottle to apply a uniform bead of sealer approximately 1/8" wide, centered on the seam cut. It is crucial that the seam sealer penetrates the full thickness of the seam cut to insure a proper chemical bond.
6. Do not wipe the sealer from the surface of the flooring.

FLASHCOVING

All To Market sheet vinyl can be integrally self- or flash-coved at the wall line. Flash coving is the procedure in which the flooring material is continued up the wall to the height of 4 or 6 inches. This coving technique eliminates the floor-wall juncture and provides for easy maintenance.

When flash coving is required, follow these recommendations:

1. Prepare the area by installing a cove fillet strip and a cove cap (either aluminum or vinyl).
2. The cap should be firmly attached to the wall at the designated height. Outside corners in the cap should be notched and formed rather than mitered. This eliminates a sharp edge at the corner.
3. Cove fillet strip is available in both plastic and wood. The fillet strip should have a minimum 1 1/8" radius.
4. The cove stick should be precisely mitered at all inside and outside corners and firmly secured into the floor or the wall.
5. Best results can be obtained by pattern or template scribing To Market Sheet Vinyl flooring when flash coving is required. Traditional pattern scribing techniques should be followed.
6. Inside corners should be cut net, with no fullness or gaps. Outside corners must be filled using "boot" plugs. Preformed metal corner caps may also be used.

FINISHING THE JOB

- Upon completion, protect flooring with plywood or equal from damage during trade traffic, furniture or heavy machinery transport.
- Cover all exposed edges.
- Use wood molding or vinyl cove base along all walls, cabinet toe kicks, etc.
- Use metal strips in doorways or where new flooring joins another sheet vinyl.
- Caulk along tubs, toilet bowls, etc.
- Do not wash the floor for 48 hours after installation.
- After 48 hours, damp mop to remove residual surface dirt.
- Follow appropriate maintenance schedule for To Market sheet vinyl flooring.

CAUTIONS AND MISCELLANEOUS

- Do not place heavy items on newly installed sheet vinyl for at least 48 hours after completion of the installation. Heavy furniture should be equipped with suitable non-staining, wide-bearing casters.
- Furniture should be moved onto the newly installed floor using an appliance hand truck over hardboard runways.
- Sheet vinyl subjected to excessive heat and light exposure is subject to thermal degradation. Use appropriate precautions to minimize potential damage to the sheet vinyl.
- Oil or petroleum-based products can result in surface staining. Do not track asphalt driveway sealer or automobile oil drips onto the vinyl sheet vinyl.
- Use non-staining walk-off mats at building entrances to remove excess dirt and grit from foot traffic.
- [Do not use rubber or rubber-backed mats as they can discolor vinyl sheet vinyl.](#)

MAINTENANCE

Your type of traffic will determine the frequency and level of maintenance, as will the color of the floor. An effective and routine maintenance program should include:

- Use long walkoff mats at every entrance with allowance for multiple footfalls to remove dirt and grit from shoes and items rolled into the environment.
- Prompt removal of spills and stains.
- Protection of the floor surface when moving heavy items.
- The most effective maintenance is the simplest: sweeping, dust mopping or vacuuming daily.

INITIAL MAINTENANCE UPON COMPLETION OF INSTALLATION

- Keep furniture, fixtures and rolling traffic off OzoTec for at least 48 hours after flooring has been adhered.
- Protect floor from heavy moving objects using plywood, hardyboard or equal.
- Sweep or vacuum thoroughly and remove any adhesive residue from the surface. (Mineral Spirits can be used)
- **DO NOT** wash floor for at least 72 hours after installation.
- Lightly damp mop with neutral pH vinyl floor cleaner and water following manufacturers instructions on mixture.
- Remove any scuffs or excessive soil by careful scrubbing. The use of vinyl black scuff/adhesive remover on a dampened cloth may be needed for scuffing caused by a certain type rubber heel.
- Do not use any tape on surface of material, as various adhesive in tape can damage a sheet vinyl surface.

PREVENTATIVE FLOOR CARE

- Proper non-stain backing walk-off matting for all weather and soil conditions should be used at all entries to provide the first line of defense against dirt and debris trafficking onto OzoTec.
- Provide at least 2" diameter glass, plastic or non-staining floor protection under machinery, furniture or other heavy focused point loads to prevent indentation or surface degradation.
- Equip all swivel type office chairs and rolling furniture with broad surface smooth non-staining casters at least 2" in diameter. (The best method of wear preventing under office chair rolling loads is the use of non-rubber floor protection pads).
- Remove small diameter buttons from furniture legs and replace with glides that have load bearing surface aspect ratio of not less than 1" in diameter.
- **DO NOT** flood floor or subject to frequent standing water and extreme moisture.

ROUTINE COMMERCIAL MAINTENANCE

OzoTec is manufactured to perform in commercial environments for years of superior performance providing a sound maintenance program is followed.

- Light daily sweeping, dust mopping and or vacuuming will prevent dirt particles not caught by the entryway walk off mats, from being ground into the OzoTec surface.
- Walk off mats fitting the entryway doors should be cleaned on a regular basis.
- Frequent light mopping and as needed, damp mopping with clean water and a neutral pH commercial vinyl floor cleaner will prevent heavy soil buildup and will remove most spills and stains. The traffic levels OzoTec is exposed to will dictate the frequency but a daily process is recommended depending on use.
- If floor receives hard use or becomes extremely dirty, an occasional scrubbing may be necessary. Use a low speed buffer of 300rpm or less with a soft nylon brush or red scrubbing type (polyester or nylon) pad. Spray neutral pH cleaner dilution over the floor and work the solution over the floor using the buffer and scrubbing pad or brush. Allow the diluted solution adequate set time to loosen dirt and grime.
- Once completed, remove the dirty emulsion residue by damp mopping with clean water or wet vacuum. Be sure to recharge bucket frequently with clean water when damp mopping as to avoid moving dirt from one location to another.

STAIN REMOVAL

- To remove stubborn spots or stains from OzoTec, always begin with mild cleaners such as a Neutral pH Vinyl Cleaner.
- If this fails to remove stain, use Mineral Spirits. Always test in a small unnoticeable area first to assess results before proceeding.
- **DO NOT** use harsh solvents such as Acetone or lacquer thinner as these products can permanently soften and damage the surface.
- For extreme staining such as paint, permanent markers or dyes, try applying finger nail polish remover containing Acetone - not straight Acetone. [Again, always test in a small unnoticeable area first before proceeding with affected areas so you can assess results. To Market is not responsible for damage to material from attempting to clean stubborn staining. Some staining is irreversible and any attempt to remove will cause damage to the finish.](#)

SAFETY PRECAUTIONS

Follow all manufacturers instructions on all maintenance products. **DO NOT** use solvent based cleaners or steel wool. These materials can dull or scratch the surface of the product. OzoTec requires no buffing or waxing to maintain its beautiful texture and appearance.

FOR PURCHASE OF TO MARKET OZOTEC CLEANING SOLUTIONS:

To Market Customer Service 866.772.4772

TECHNICAL SERVICE QUESTIONS:

Bill Neifert, Vice President of Technical Services 570.856.1657