

Revised 2/1/2016

Note: This document supersedes all printed and electronic Installation and Technical Guides previously distributed for Metroflor®.

# METROFLOR® LVT



*Installation and Technical Guide*

**MODERN. ELEGANT. DURABLE.**



## Get to Know Metroflor®

- Metroflor® Luxury Resilient Flooring is a dryback product. Installation is fast, easy, quiet and clean, requiring only a suitable Prevail™ adhesive and a few simple hand tools.
- Metroflor® is intended for interior use only and is suitable for above-grade, on-grade and below-grade applications. However, Metroflor® should not be installed in locations where the substrate beneath the building structure is exposed to the elements.
- Because Metroflor® Luxury Resilient Flooring is glued directly to the substrate, permanent cabinets, vanities, island counters and similar items may be installed directly on top of the finished floor. Fill small gaps around potentially wet areas such as refrigerators, tubs, toilet flanges and appliances with premium waterproof 100% silicone caulk.
- Acclimate and install Metroflor® in climate-controlled structures consistently maintained at temperatures no lower than 65°F and no higher than 85°F before, during and after installation. Ambient relative humidity should be maintained between 35% and 85%.
- Direct sunlight may cause Metroflor® to fade. Protect Metroflor® from direct sunlight using window treatments or UV tinting on windows. Metroflor® is not recommended for use in sunrooms.
- Metroflor® may be installed in bathrooms, but remember that although Metroflor® is water resistant, constant exposure to excessive moisture may adversely affect the product, causing permanent damage. Regardless of location, always remove standing water, urine and other liquids promptly. *Moisture issues must be addressed and corrected at the job site prior to installation.*

### **Attention: IMPORTANT**

If Metroflor® Luxury Resilient Tile and Plank products will be combined in a single installation, the products must be the same gauge and edge treatment.

**Note:** *Only Prevail™ Adhesives are approved and warranted for use with Luxury Resilient Tile and Plank by Metroflor® Corporation. Bond issues resulting from the use of non-recommended adhesives are not warranted. All warranties and guarantees pertaining to the suitability and performance of any product not recommended by Metroflor® Corporation rest with the material manufacturer or the installation contractor and NOT with Metroflor® Corporation. The condition of the subfloor and bond issues resulting from the use of non-recommended, improper, or incorrectly prepared adhesives, sealers, embossing levelers, patches, concrete, gypsum-based products and other such items, are the sole responsibility of the installer and/or manufacturer of the particular sub-flooring product.*

## PRE-INSTALLATION ESSENTIALS

*Your job will be smooth, fast and easy when you follow the essentials every time you install Metroflor®.*

### EVALUATE THE JOB SITE

#### Exterior

*Damage caused by water and high humidity should be addressed prior to installing Metroflor®.*

- Examine the driveway and landscaping surrounding the building. Be sure that they slope and direct water away from the foundation.
- Inspect gutters, down spouts and drains for blockage. Remove clogs caused by leaves, dirt and debris, allowing runoff to flow freely away from the foundation.
- Check crawl spaces for cross-ventilation air vents equaling at least 1.5% per 100 square feet of floor space. Crawl spaces should measure a minimum of 18 inches high and should be insulated according to the latest building code requirements. The ground should be covered with a minimum 6-mil vapor barrier.

#### Interior

*Although Metroflor® is water resistant, moisture issues must be identified and corrected at the job site prior to installation.*

- Examine the installation site for leaky plumbing, including leaks from water heaters, dishwashers, washing machines, toilets or any other water-bearing fixtures or pipes.
- Inspect substrates for level. They must be sturdy, sound, and flat within  $\frac{3}{16}$  of an inch within a 10-foot radius. The substrate should not slope more than 1 inch per 6 feet in any direction. Test concrete substrates for relative humidity, moisture and pH before installing Metroflor®. Test results for relative humidity (RH), the Calcium Chloride Test for moisture (MVER), and alkalinity (pH) must not exceed recommended adhesive tolerances. Follow the Prevail™ adhesive instructions located on the label, or visit [metroflorusa.com](http://metroflorusa.com).
- Check wood substrates for moisture. Obvious signs of moisture issues include warping, peaking, degradation of the integrity of the substrate, rusted fasteners, and rusted floor registers. Even if obvious signs are not present, the material should be tested using an invasive moisture meter and moisture levels should not exceed 14%.

### IDENTIFY YOUR SUBSTRATE

#### Approved Substrates

*Metroflor® Luxury Resilient Flooring is suitable for use over a wide variety of substrates.*

#### Concrete

Concrete substrates must be prepared in accordance to the most current version of ASTM F710. (Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring) Concrete substrates must be sturdy, sound, and flat within  $\frac{3}{16}$  of an inch within a 10-foot radius, and must have compression strength of 3,500 psi or greater. The substrate should not slope more than 1 inch per 6 feet in any direction. It must be free of dust, dirt, paint, varnish, oil, grease, solvent, wax, existing adhesives and other extraneous material including curing and parting compounds, sealers and surface hardeners that may interfere with the adhesive bond. Even after removing old, glued-down carpet, do not assume that the concrete is porous. Often, the old adhesive has sealed the floor. If old cutback adhesive is sealed using an acrylic-based primer/encapsulator such as Prevail™ 1000 Primer/Encapsulator, the floor should be considered non-porous. Be aware that porous and non-porous subfloors may require different trowel sizes for adhesive application. See the Prevail™ adhesive pail label for recommended trowel sizes. If oil, grease or other contaminants have deeply penetrated the concrete and cannot be thoroughly removed, do not install Metroflor® Luxury Resilient Flooring. Allow new concrete, including lightweight and gypsum toppings, to cure for at least 90 days before conducting moisture tests. Moisture and Alkalinity tests must be performed on all concrete substrates regardless of grade level or age of slab. Perform either ASTM F2170 In-Situ Relative Humidity (RH) test or ASTM F1869 Calcium Chloride Moisture Test (MVER: Moisture Vapor Emission Rating). Perform pH test per ASTM F710 to determine alkalinity of the slab. Test results for relative humidity (RH), moisture (MVER), and alkalinity (pH) must not exceed recommended adhesive tolerances. Follow the Prevail™ adhesive instructions located on the label, or visit [metroflorusa.com](http://metroflorusa.com). If test results exceed recommended adhesive tolerances for relative humidity, alkalinity or moisture, the issues must be corrected by using a moisture mitigation system before installing Metroflor®. If test results exceed recommended adhesive tolerances for relative humidity, alkalinity or moisture, the issues must be corrected by using a moisture mitigation system before installing Metroflor®. If the test results exceed the limitations noted, the installation should not proceed until the problem has been corrected. Electronic meter testing is not considered a replacement for a Calcium Chloride Test or Relative Humidity Test. All recommended moisture tests must be conducted several days prior to installation to be sure that moisture is at recommended levels. Moisture affects the cure, set and bond of adhesives. Follow current ASTM F710 guidelines. Metroflor® Corporation highly recommends that substrate moisture and pH testing is conducted by an ICRI (International

Concrete Repair Institute) tier 2 certified third party. Documentation of pH and moisture results may be required when processing claims.

## Lightweight Concrete

The minimum density of lightweight concrete should be greater than 90lbs per cubic foot with minimum compression strength of 2,500 psi or greater.

**NOTE:** Gypsum-based concretes are not recommended. If installing over gypsum toppings or other forms of lightweight underlayment, prime prior to installation using an acrylic-based primer/encapsulator such as Prevail™ 1000 Primer/Encapsulator. Call Technical Services at 888-235-6672 for details.

## Radiant Heat

Radiant heating systems must be cast ½-inch below the surface of the concrete slab, and should be operating at least 2 weeks before installing Metroflor®. Set the temperature of the radiant heating system to 68°F 48 hours before, during, and 72 hours after installation. The temperature of the radiant heat floor may be increased gradually 72 hours after installation, but the surface temperature should never exceed 85°F. Contact the manufacturer of your radiant heating system for further recommendations.

## Wood Substrates

Wood substrates must be sturdy, sound, and flat within ⅜ of an inch within a 10-foot radius. The substrate should not slope more than 1 inch per 6 feet in any direction. Always perform a test for moisture prior to installation. Moisture readings should never exceed 14%. If moisture readings exceed 14%, correct moisture issues before installing Metroflor®.

Wood substrates should have standard double-layer construction, with a finished thickness of at least 1" and should have 18" of well-ventilated air space underneath. Crawl spaces should be insulated and protected by a vapor barrier. Do not install vinyl flooring over a sleeper type subfloor, or over plywood that is directly over a concrete slab. All wood substrates must meet national and local building code guidelines.

**Plywood:** Use only American Plywood Association (APA) underlayment grade plywood, with a minimum grade of "BB" or "CC." minimum ¼" thickness. Allow expansion spacing between plywood butt joints of ½"–⅝". When installing underlayment, stagger cross-joints 4' on an 8' panel (minimum 16"), lightly butt the panels, and set fasteners flush or slightly below the surface level of the underlayment. Fill underlayment seams, nail holes and any indentations with an approved Portland Cement-type floor patch, allow recommended drying time, and sand the patch smooth. Otherwise, use manufacturer-certified poplar, birch and spruce plywood underlayment, with a fully sanded face and exterior glue. All dust must be COMPLETELY removed to ensure a strong adhesive bond. Vacuum or sweep thoroughly, then apply adhesive.

**Lauan Plywood:** Use only Type 1 lauan exterior grade "BB" or "CC" for underlayment. The use of lesser grades of lauan plywood is unacceptable and may cause severe problems including discoloration, indentation, loss of bond and delamination when used as an underlayment.

**NOTE:** The use of underlayments such as lauan and other extremely porous wood underlayments will reduce the flash and working time of adhesives. It is best to apply an acrylic-based primer/encapsulator such as Prevail™ 1000 Primer/Encapsulator to any porous substrate prior to installing Metroflor® Luxury Resilient Flooring. A manufacturer's certification of lauan grade must accompany any claim involving the use of a lauan underlayment.

## UNACCEPTABLE SUBSTRATES

Remove the floors noted below and remove old adhesive before installing Metroflor®. Encapsulate adhesive and cutback residue using an acrylic-based primer/encapsulator such as Prevail™ 1000 Primer/Encapsulator. Any appearance or performance-related issues associated with the underlayment are the responsibility of the installer and/or underlayment manufacturer.

- Parquet
- Hardwood
- Strip Wood
- OSB
- Treated Plywood
- Fire-Retardant or Preservative-Treated Plywood
- Chipboard
- Particleboard
- Hardboard
- Masonite
- Knotty Plywood
- Glass Mesh Tile Boards
- Cementitious Tile Backer Boards
- Asphalt Tile
- Rubber Tile
- Self-Stick Tile
- Cushion Back Sheet Vinyl
- Engineered Hardwood Over Concrete
- Carpeting/Carpet Pad
- Floating Floors
- Sleeper Substrates

**NOTE:** Various Federal, State and Local government agencies have regulations governing the removal of in-place asbestos-containing material. If you contemplate the removal of a resilient floor covering structure that contains (or is presumed to contain) asbestos, you must review and comply with all applicable regulations. Do not sand, dry sweep, dry scrape, drill, saw, bead blast, or mechanically chip or pulverize existing resilient flooring, backing, lining felt, asphalt "cut-back" adhesive, or other adhesive. These products may contain asbestos fibers and/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 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. RFCI™'s Recommended Work Practices for Removal of Resilient Floor Covering are a defined set of instructions addressed to the task of removing all resilient floor covering structures. For further information, contact the Resilient Floor Covering Institute website at [www.rfci.com](http://www.rfci.com).

**ATTENTION:** Mold and mildew grow only in the presence of moisture. Moisture issues must be addressed and corrected at the job site prior to installation. Please visit [www.epa.gov/mold](http://www.epa.gov/mold) for information about safely preventing and removing mold, mildew and other biological pollutants.

## PREPARE THE SUBSTRATE

Careful preparation is the key to outstanding results.

### Concrete Slabs:

All concrete, whether new or old, must be tested for moisture using either ASTM F2170 In-Situ Relative Humidity (RH) Test or ASTM 1869 Calcium Chloride Moisture Test (MVER). Concrete should also be tested for pH, porosity and bond prior to installing Metroflor® Luxury Resilient Flooring. See the “Identify Your Substrate” section of this manual for test details. The installer is responsible for performing moisture tests. Excessive moisture will retard and prevent adhesive from setting, resulting in installation failure. See Prevail™ adhesive pail labels for details. New concrete should cure under well-ventilated conditions for at least 90 days and must be tested for moisture and pH before installing Metroflor® Luxury Resilient Flooring. Do not install if excessive moisture, hydrostatic pressure, or alkaline conditions are evident. Concrete substrates must be clean and dry, smooth, and structurally sound. They must be free of dust, dirt, paint, varnish, oil, grease, solvent, wax, existing adhesives and other extraneous material including curing and parting compounds, sealers and surface hardeners that may interfere with the adhesive bond. Remove any curing agents from concrete surfaces. Level any high spots and fill in all cracks, holes and minor depressions with a Portland Cement-based filler, then sand smooth. Installation failures due to the above issues are not the responsibility of Metroflor® Corporation and warranties will not apply. Whenever questionable surfaces are involved, Metroflor® Corporation recommends a bond test as described later in this section.

### Patching & Leveling:

Use only Portland-Cement based patching and leveling compounds and allow to dry according to manufacturer’s instructions. Self-leveling compounds may have very high moisture content requiring longer curing times. Check with a moisture meter before starting installation. Note: Adding latex to levelers will normally make the floor NON-POROUS. Test for porosity and follow non-porous adhesive recommendations if necessary. Follow the manufacturer’s instructions, and do not over-water patching and leveling compounds. The installer is responsible for observing cure times, moisture content, adhesive bonding and the structural integrity of any leveling or patch compound used.

### Embossing Levelers:

Use embossing levelers on sheet goods with textures that could telegraph through Metroflor® Luxury Resilient Flooring. Self-leveling compounds must fully cure according to manufacturer’s instructions before installing Metroflor® Luxury Resilient Flooring. Test self-leveling compounds for moisture before installing. The installer is fully responsible for moisture and leveler-related issues. Note: The use of levelers on sheet goods will not create a porous subfloor.

### Primers/Encapsulators:

Prevail™ 1000 Primer/Encapsulator is compatible and recommended for use with all Prevail™ adhesives in sites not exceeding 80% RH. See the “Identify Your Substrate” section of this manual for test details. Metroflor® Corporation does not endorse the use of any concrete or floor sealers as moisture mitigation systems. If moisture

is present, DO NOT INSTALL Metroflor® Luxury Resilient Flooring. Use Prevail™ 1000 Primer/Encapsulator to protect the installation against alkalinity, and serve as a barrier between old and new adhesives to deaden old adhesive tack. Existing adhesives must be mechanically scraped down to a bare minimum residue flat with the substrate before applying Prevail™ 1000 Primer/Encapsulator. Prevail™ 1000 Primer/Encapsulator also prevents plasticizer migration and seals over dust and old adhesive residues, including cutback. Apply evenly across the entire surface of the floor with no gaps in the application, according to the label instructions. Allow to dry completely according to the label instructions before applying the appropriate Prevail™ adhesive.

### Underlayment:

Prevail™ GDP Glue Down Pad is a closed-cell polypropylene foam underlayment used for double glue-down applications of Metroflor® Luxury Resilient Flooring over concrete and plywood substrates. This lightweight, moisture-resistant material meets industry standards for sound reduction critical for multi-level builds. Approved for use with Prevail™ 6000 Adhesive. Visit metroflorusa.com for test data.

### Adhesive Bond Test:

Use the following test to determine if a subfloor is compatible for use with Prevail™ adhesives, or to determine if the porous or non-porous adhesive application method is required: Using the flooring and adhesive suitable for the subfloor, install a 3" x 3" section following the recommended installation procedures. Tape the edges with duct tape to prevent the adhesive from drying prematurely. Select light traffic areas such as those located next to walls or columns. After 48 hours, the adhesive should be dry and the flooring should be difficult to remove. Note: the adhesive is dry at this point, but not cured. Full cure and maximum bond will not occur for 6-8 days. On large installations, tests should be performed every 50 linear feet.

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## PREPARE THE JOB SITE

*All Trades Must Finish Before Installing Metroflor® Luxury Resilient Flooring.*

- **Install Permanent Exterior Doors and Windows**
- **Turn on HVAC at Least One Week Prior to Installation** Room temperature should be maintained between 65°F and 85°F at least 48 hours prior to installation.
- **Allow all other Trades to Finish**
- **Perform Required Moisture and pH Tests** See the “Identify Your Substrate” section of this manual for further information about the required tests.
- **Level Uneven Surfaces** Fill large cracks and voids with cementitious leveling and patching compound. Substrates must be sturdy, sound, and flat within  $\frac{3}{16}$  of an inch within a 10-foot radius. The substrate should not slope more than 1 inch per 6 feet in any direction.
- **Remove Floor Moldings** Quarter round and wall base should be carefully removed before installation begins. It will be used to conceal the  $\frac{1}{4}$ -inch expansion space once the job is finished.
- **Fill Grout Lines** Skim coat grout lines on ceramic tile, terrazzo, quarry tile and similar surfaces using cementitious leveling and patching compound.
- **Remove Unapproved Substrates**
- **Remove or Encapsulate Old Adhesive** Old carpet and vinyl adhesives should be scraped up, skim coated or encapsulated using Prevail™ 1000 Primer and Sealer
- **Undercut Wood Door Casings** Wood door casings should be undercut so that Metroflor® will fit neatly beneath them. Position the plank on the substrate against the door casing. Lay the handsaw flat against the scrap plank and carefully cut the door casing to the height of the plank.
- **Cut Around Metal Door Casings** Do not cut metal door casings. Cut Metroflor® around them. Fill small gaps or spaces with a coordinating premium waterproof 100% silicone caulk.
- **Clean Up the Job Site** Remove all debris, sweep and vacuum the floor. Smooth, non-porous floors should be damp-mopped after vacuuming and allowed to dry thoroughly before installing Metroflor®.

## CHECK RUN NUMBERS AND MANUFACTURE DATE

Locate the run number on the short end of each carton and verify that all of the material for your job is from the same run. Minor shade variations within the same run number contribute to the natural look of Metroflor®. To avoid noticeable shade variations, do not install material from different runs across large expanses.

To determine manufacture date, locate the run number on the short end of the carton. It is the eight-digit number separated by decimal points beginning with the two-digit day, then the two-digit month, and finally the four-digit year.

**Run Number/Manufacture Date**  
**29.10.2013**  
**DAY.MONTH.YEAR**

## ACCLIMATE THE PRODUCT

*Correct acclimation prevents Metroflor® from expanding and contracting excessively after installation.*

- Move Metroflor® to the job site and allow to acclimate at least 48 hours prior to installation.
- Spread **unopened** cartons no more than 6 high and at least 4 inches apart. Cartons should be stacked away from heating and cooling ducts and direct sunlight.
- Maintain a constant room temperature between 65°F and 85°F before, during and after installation.
- Maintain ambient relative humidity between 35% and 85% at all times.

## INSTALLATION

Always start with a clean job site. All trades must finish before installing Metroflor®. Carefully inspect each plank or tile for defects prior to installation, and do not install damaged material. Be sure to check run numbers/manufacture dates prior to installing, as noted in the Pre-Installation Essentials section of this manual.

**Run Number/Manufacture Date**  
**29.10.2013**  
**DAY.MONTH.YEAR**

## METROFLOR® RESILIENT TILE INSTALLATION

### STEP 1: Square the Room

To square the layout of the room, find the center of one end of the room. Locate the same point at the other end wall. Snap a chalk line between these points to mark the center line on the floor. Then measure along this center line to find the middle of the room. At the center point, mark off a line across the room at exactly right angles to the first line. This may be accomplished using the 3-4-5 triangle method. Starting from the center point, make a mark measuring 4 feet vertically and 3 feet horizontally. Connect the marks with a diagonal line to complete the triangle. If the diagonal line does not measure exactly 5 feet, the center crossing lines are not at a true right angle (See Figure 1).

**TIP:** For large rooms, multiples of the above dimensions may be used to obtain greater accuracy (6-8-10, 9-12-15, and so on).

### STEP 2: Balance the Room

Dry-lay a row of tiles from the center line to the side wall to determine the size of the first and last tiles. If the resulting border is too small in either direction, move the row of tiles over one-half tiles' width and snap a new line. This becomes your new starting line (See Figure 2).

**TIP:** Use the dimensions of the room to calculate the size of the first tile without dry-laying.

### STEP 3: Install the Tiles

After determining the border widths and snapping the center starting lines, spread the appropriate Prevail™ adhesive on the center lines, leaving portions of the lines at center and near each wall uncovered (See Figure 3). Apply adhesive as recommended on the label. Lay the tiles from the center of the room, working towards the walls as shown.

**TIP:** Do not apply more adhesive than can be worked within the recommended open time. Always follow the adhesive manufacturer's recommendations.

**IMPORTANT:** All Metroflor® Luxury Resilient Flooring must be rolled with a 100lb roller after installation. Use a hand roller in areas unreachable by a 100lb roller.

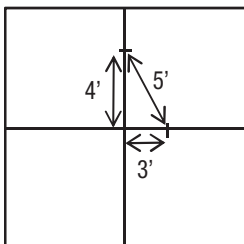


Figure 1

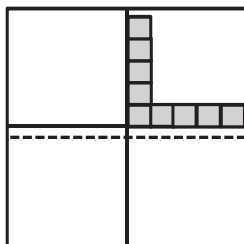


Figure 2

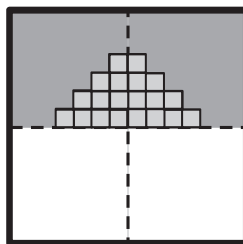


Figure 3

## METROFLOR® RESILIENT PLANK INSTALLATION

### STEP 1: Square the Room

To square the layout of the room, find the center of one end of the main rectangle in the room. Locate the same point at the other end wall. Snap a chalk line between these points to mark the center line on the floor. Then measure along this center line to find the middle of the room. At the center point, mark off a line across the room at exactly right angles to the first line. This may be accomplished using the 3-4-5 triangle method. Starting from the center point, make a mark measuring 4 feet vertically and 3 feet horizontally. Connect the marks with a diagonal line to complete the triangle. If the diagonal line does not measure exactly 5 feet, the center crossing lines are not at a true right angle (See Figure 4).

**TIP:** For large rooms, multiples of the above dimensions may be used to obtain greater accuracy (6-8-10, 9-12-15, and so on).

### STEP 2: Install the Planks

After snapping the center starting lines, spread the appropriate Prevail™ adhesive on the center lines, leaving portions of the lines at center and near each wall uncovered. Start laying the planks from the right angle formed by the center lines. Lay the material from the center of the room, working towards the walls as shown. It is imperative that the first row is placed precisely and accurately against the reference line as you install. Make sure each plank is flush against the chalk line and tight against the adjoining plank. The ends of the planks should align perfectly. Lay row-by-row, or pyramid fashion, as shown (See Figures 5 & 6).

**TIP:** Pay special attention to the edges of the planks. Do not slide the planks through the adhesive as you install.

**IMPORTANT:** All flooring must be rolled with a minimum 100-lb roller after installation. Use a hand roller in areas not reached with a 100-lb. roller. Fill small gaps around potentially wet areas such as refrigerators, tubs, toilet flanges and appliances with premium waterproof 100% silicone caulk.

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**For further information, inquiries and troubleshooting please contact:**

**Metroflor Corporation**  
**119 Thomas Street**  
**Calhoun GA 30701**  
**888-235-6672**  
**metroflorusa.com**

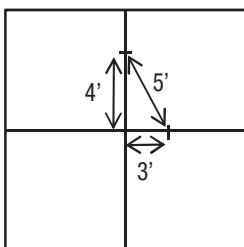


Figure 4

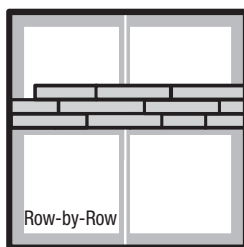


Figure 5

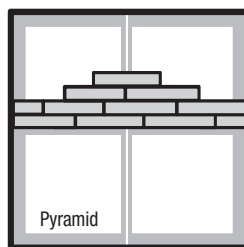


Figure 6



## PREVAIL™ ADHESIVES

Prevail™ Product	Adhesive Type	Usage	pH Tolerance	ASTM F2170 - RH Limits	ASTM F1869 - MVER	Spread Rate and Trowel (Porous)	Spread Rate and Trowel (Non-Porous)	Shelf Life (In Unopened Properly Stored Containers)	LEED Qualified	FloorScore® Certified
PR-30-GS	Cyanoacrylate	Grip Strip Adhesive	N/A	N/A	N/A	40 linear feet per tube	40 linear feet per tube	1 Year	NO	NO
PR-2000	PSA	Modular Carpet Tile	7-10	85%	5lbs	160-180 sf/g – 1/16" x 1/16" x 1/16" Sq-notch	220-260 sf/g – 1/16" x 1/32" x 1/32" U-notch 350-400 sf/g – 3/8" nap roller	2 Years	YES	YES
PR-3100	Spray Acrylic	Luxury Resilient Vinyl Tile and Plank	7-11	90%	8lbs	150-185 sf/can	150-185 sf/can	3 Years	YES	YES
PR-3500	Hard Set	Luxury Resilient Vinyl Tile and Plank	7-10	80%	6lbs	125-150 sf/g – 1/16" x 1/16" x 1/16" Sq-notch	165-200 sf/g – 1/16" x 1/16" x 1/16" V-notch	1 Year	YES	YES
PR-4000	Two-Part Epoxy	Luxury Resilient Vinyl Tile and Plank	7-10	80%	6lbs	125-150 sf/g – 1/16" x 1/16" x 1/16" Sq-notch	125-150 sf/g – 1/16" x 1/16" x 1/16" Sq-notch	1 Year	YES	YES
PR-6000	PSA	Luxury Resilient Vinyl Tile and Plank	7-10	90%	8lbs	160-180 sf/g – 1/16" x 1/16" x 1/16" Sq-notch *Over Prevail™ GDP: 350-400 sf/g – 3/8" nap roller	220-260 sf/g – 1/16" x 1/32" x 1/32" U-notch 350-400 sf/g – 3/8" nap roller	2 Years	YES	YES

All are Commercially & Residentially Rated, and are Compatible with Plywood, Concrete, and Radiant Floor Substrates

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## GENERAL CARE & MAINTENANCE

*Metroflor LVT® by Metroflor® is manufactured with a high performance UV cured urethane and ceramic bead coating which provides improved maintenance characteristics and options for the end-user in commercial environments. All floor coverings require care to look their best and many problems can be prevented before they occur. The area of usage, type and frequency of traffic on the floor will determine the type and frequency of maintenance of needed. Proper cleaning, care and maintenance are an essential part of keeping your Metroflor LVT® floor looking attractive and safe. These guidelines will help to maintain the appearance and extend the life of your Metroflor LVT® Commercial flooring.*

*Listed below are the proper steps for protecting and maintaining your Metroflor LVT® Floor:*

### METROFLOR LVT® FLOOR-CARE BEST PRACTICES

- Sweep daily or vacuum using only vacuums without any type of beater bar assembly.
- The single greatest cause of damage to any flooring or floor finish is abrasion from dirt and grit. Wherever possible, use walk-off mats at all outside entrances and doorways and vacuum mats routinely.
- Avoid exposure to direct sunlight for prolonged periods. During peak sunlight hours, the use of the drapes or blinds is recommended. Prolonged direct sunlight can result in discoloration, and excessive temperatures might cause tile or planks to expand.
- All Metroflor LVT® floors have good resistance to stains and are not affected by most common spills, however any spill should be cleaned up immediately. The longer the spilled materials are left on the floor, the greater the risk of permanently staining the floor. For information regarding the proper method or solution to use on a specific stain, contact Metroflor LVT® Customer Service at 1.855.400.7732.
- Rubber-backed or latex-backed mats, tires, vinegar, waxes, oil soaps, abrasive cleaners, harsh detergents, “mop and shine” products, solvents and asphalt sealers may stain or damage the floor’s surface. Ensure the mats used on the floor are non-staining mats.
- Do not flood floor or subject to frequent standing water.
- Only use Prevail™ cleaning products which are designed for Luxury Vinyl Tile with urethane coatings.
- Only use Prevail™ Vinyl Stripper since the use of aggressive strippers such as mop-on/mop-off, no-scrub and no-rinse strippers may adversely affect the adhesive bond.
- Never use anything coarser than 3M equivalent red cleaning pads or brushes on Metroflor LVT® commercial resilient flooring (see maintenance procedures).
- Use furniture floor protectors under all furniture items including chairs, tables, heavy furniture and equipment that are at least 1” in diameter with a soft protective fiber surface such as felt or natural fiber blend.
- Check furniture floor protectors routinely, especially chairs and tables that may be moved frequently, to ensure there is no dirt, debris or chards embedded in the protectors. Replace or clean as needed.
- Use non-staining casters engineered for “hard surface” floors that are a minimum of 1” wide and at least 2” in diameter on rolling furniture and/or chairs. You may find that you have to retrofit to accommodate casters designed for soft surface flooring (carpet). Check “hard surface” non-staining casters routinely, especially chairs and tables that may be moved frequently, to ensure there is no dirt, debris or chards embedded in the casters. Replace or clean as needed.
- In order to prevent indentations and scratches use 2” hard, non-staining cups that are designed with a soft felt undersurface to support the weight of heavy furniture, equipment or appliances.
- When moving heavy furniture and equipment, use strips of plywood, Masonite™ or furniture moving aids to roll or slide the furniture or equipment to avoid damage to the floor.
- Protect your floor against burns. Burns from the glowing end of a cigarette, matches or other extremely hot items can damage Metroflor LVT® floors.
- Do Not use steam cleaners.

## METROFLOR LVT® MAINTENANCE PROCEDURES

**Safety:** When performing wet maintenance, always use proper signage and prohibit traffic until the floor is completely dry. Always use caution and follow electrical equipment manufacturer's safety instructions.

### No Polish Or Buffing Maintenance Options

Initial Maintenance for a Newly Installed floor

1. Allow the adhesive to cure for at least 48 hours prior to wet cleaning the floor.
2. Sweep, dust mop or vacuum the floor thoroughly to remove all loose dirt, dust, grit and debris.
3. Remove any dried adhesive residue from the surface with Prevail™ Black Scuff and Adhesive Remover or mineral spirits applied to a clean, lint-free cloth. Do not allow the excessive amounts of solvents to sit on the vinyl or penetrate the joints of the flooring.  
**NEVER APPLY SOLVENT DIRECTLY TO THE FLOORING.**
4. Damp mop the floor using Prevail™ 1-Step Neutral Cleaner.
5. If necessary, scrub the floor using an auto scrubber or rotary machine (300 rpm or less) with Prevail™ 1-Step Neutral Cleaner using the proper dilution ratio and the appropriate scrubbing brush or pad. Fit the buffer with a 3M equivalent red or white scrubbing pad and work the solution over the floor.
6. Thoroughly rinse the entire floor with fresh clean water. Remove the dirty residue with a wet-vacuum or clean mop and allow the floor to dry completely.

### NOTES: Stain Removal

To remove stubborn spots or stains from Metroflor LVT® floors, always begin with mild cleaners such as Prevail™ 1-Step neutral Cleaner. If this fails to remove the stain and "if permitted" use mineral spirits. Do not use harsh solvents such as lacquer thinner or straight acetone, as these can permanently soften and damage the vinyl surface.

For extreme staining such as paints, permanent markers, dyes and "if permitted" try applying fingernail polish remover containing acetone (do not use straight acetone) applied to a soft cloth and rubbing. Subsequent to this cleaning procedure for stubborn spots, please clean the affected area with clear water to remove any residue. Any damage resulting from use of pure solvents IS NOT covered by warranty. Always test stronger cleaning agents on sample pieces or in inconspicuous areas first.

### Daily/Routine Maintenance

1. Clean entryway walk-off mats to remove dirt, grit, sand and other contaminants from being tracked on the floor as required.
2. Sweep, dust mop or vacuum (without beater bar assembly) the floor thoroughly to remove all loose dirt, dust, grit and debris that can stick to and damage the surface of the floor.
3. Spills should be cleaned up immediately. Spot clean using Prevail™ 1-Step Neutral Cleaner and microfiber cloth or mop.

4. Damp mop the floor on a regular or daily basis using Prevail™ 1-Step Neutral Cleaner. Use a two-bucket system with microfiber mops/pads.

### Periodic Maintenance

1. When necessary, scrub the floor using an auto scrubber or rotary machine (300 rpm or less) with Prevail™ 1-Step Neutral Cleaner, using the proper dilution ratio. Fit the buffer with a 3M equivalent red or white scrubbing pad and work the solution over the floor.
2. Thoroughly rinse the entire floor with fresh clean water. Remove the dirty residue with a wet-vacuum or clean mop and allow the floor to dry completely.

## ALTERNATIVE MAINTENANCE OPTIONS

Alternative maintenance options provide end-users the flexibility of using different methods to maintain their floors based upon the needs of the area of usage. Metroflor LVT® floors may be maintained using a Prevail™ Finish or the spray buff option.

### Prevail™ Finish Option:

1. After completing steps 1 and 2 under the initial maintenance for a newly installed floor, scrub the floor using an auto scrubber or rotary machine (300 rpm or less) with Prevail™ 1-Step Neutral Cleaner using the proper dilution ratio. Fit the buffer with a 3M equivalent red or white scrubbing pad and work the solution over the floor to remove contamination and promote adhesion.
2. Thoroughly rinse the entire floor with fresh clean water. Remove the dirty residue with a wet-vacuum or clean mop and allow the floor to dry completely.
3. Apply 2 or more coats of Prevail™ Matte or Gloss Finish.
4. Apply additional coats of floor finish only as needed. Refer to Prevail™ Floor Finish Label.

**Notes: Never use a brush or pad more aggressive than a 3M red equivalent. Blue, Green, Brown, and Black pads will damage the surface of the floor.**

**The higher the gloss level the more apparent will be surface scratches, stains and subfloor imperfections. Maintaining a high gloss finish requires additional maintenance. In healthcare applications, a high gloss floor can have a negative effect on depth perception for elderly patients. We recommend the use of a matte gloss only in those environments.**

### Spray Buff Option:

1. After completing steps 1 and 2 under the initial maintenance for a newly installed floor, machine scrub the floor with Prevail™ 1-Step Neutral Cleaner, using the proper dilution ratio. Fit the buffer with a 3M equivalent red or white scrubbing pad and work the solution over the floor to remove contamination and promote adhesion.
2. Thoroughly rinse the entire floor with fresh clean water. Remove the dirty residue with a wet-vacuum or clean mop and allow the floor to dry completely.

3. Using a hand held spray bottle with Prevail™ Matte or Gloss Finish, working in small areas (10' x 10'), lightly mist the floor and buff using an auto scrubber or rotary machine (300 rpm or less) fitted with a 3M equivalent red pad.
4. Daily routine and periodic maintenance should be performed as stated in above sections.
5. Machine scrubbing should always be conducted prior to spray buffing.

## Restorative Maintenance

1. Mix Prevail™ Vinyl Stripper solution per instructions label. Blockade and set up caution signs. Using a clean string microfiber mop apply liberal amounts of solution onto the floor and allow to soak per instructions. Re-wet if necessary.
2. Using a low speed machine (300 rpm or less), scrub the floor with a scrubbing brush or pad equivalent to a 3M red pad.
3. Use a wet-vacuum or clean mop to remove dirty stripping solution. If the floor begins to dry it may be necessary to drizzle fresh clean water onto the stripper solution to remove it.
4. Thoroughly rinse the entire floor with fresh clean water. Remove the dirty residue with a wet-vacuum or clean mop and allow the floor to dry completely.
5. Next, start over by following the Prevail™ Finish Option.

**Notes: Never use a brush or pad more aggressive than a 3M red equivalent. Blue, Green, Brown and Black are NOT acceptable.**

## Operating Rooms

The frequent use of disinfectants in operating rooms will make the use of floor finish impractical. **DO NOT USE PHENOLIC DISINFECTANTS ON ANY FLOOR.**

## Automatic Scrubbers

Automatic scrubbers come in walk-behind and ride-on styles with some being compact for hard-to-reach areas around equipment or fixed seating. Auto Scrubbers are efficient, safe and cost effective delivering substantial time savings compared to the mop and bucket method of floor maintenance.

## WARRANTY REGISTRATION

To register and activate your product warranty, please visit [metroflorusa.com](http://metroflorusa.com) and click on the Warranty/Maintenance tab. The registration information you provide will be used only to register your purchase and for no other purpose.



For further information, please call Metroflor™ Technical Support Services at **(888) 235-6672**, or visit our website at [metroflorusa.com](http://metroflorusa.com).