

## **GENERAL**

These instructions cover all fully adhered installations of Base King, LLC's® "Base King's" approved Flooring. All recommendations are based on the most recent available information. The information on these sheets provides general guidelines. For complete details consult Base King's master installer/ tech manager or visit our website [www.baseking.com](http://www.baseking.com). These instructions and recommendations must be followed for a satisfactory installation.

**MAKE SURE YOU INSPECT YOUR FLOORING MATERIALS PRIOR TO INSTALLATION. NO CLAIMS WILL BE HONORED IF FLOORING INSTALLED WITH VISIBLE DEFECTS. READ ALL INSTRUCTIONS PRIOR TO BEGINNING INSTALLATION.**

The installation of ES-100™ systems are straightforward and similar to the installation procedures that apply to all quality floors. Good preparation is essential for a trouble-free installation. Do not install the ES-100™ systems until jobsite testing and subfloor preparations are finished and the work of all other trades is complete. Site conditions must comply with the relevant building codes and local, state and national regulations.

- ES-100™ System is recommended for use over properly prepared concrete, metal and other suitable substrates.
- Never install ES-100™ System over residual asphalt type (Cutback) adhesive as "Bleed Through" and bonding failure may occur.
- ES-100™ System is not suitable for external installation or unheated locations.
- ES-100™ System, jobsite and subfloor must be acclimated to a stable condition before installation (See Job site testing).
- Immediate foot traffic and full use is allowed once the ES-100™ System is installed.
- ES-100™ system should remain at a temperature between 55°- 90° F (7°-32° C) during its service life. Flooring Manufacturers Temp recommendations supersede ours.

## **MATERIAL RECEIVING, HANDLING & STORAGE**

- Follow the Flooring Manufacturers recommendations on receiving materials and verifying materials.
- Report visual defects immediately to the manufacturer prior to installation.
- Acclimate the EnviroSTIX™ adhesive, ES-MBP™ (Moisture Barrier Primer), Flooring and job site to a stable installation condition as described in the Flooring Manufacturer's installation guides. ES-100™ system materials must be acclimated at minimum between 60°- 75°F (15°- 24°C) at 30% to 50% relative humidity for 24 hours before, during and after installation. Acclimate all materials onsite and off stack tile/ plank cartons to manufacture recommended layered stacks. Temporary heating and cooling can be used if permanent HVAC is not operational if the flooring manufacturer's instructions approve. If a system other than the permanent HVAC source is utilized, it must provide proper control of both temperature and humidity to recommended or specific levels for the appropriate time duration.

- Follow Manufactures guidelines on proper storage as their recommendations supersede our own.

#### **JOBSITE TESTING AND CONDITIONS**

- Before jobsite testing, the building envelope must be sealed (walls, roofing, windows, doorways etc., installed).
- Anticipated environmental conditions must be maintained according to the flooring manufacturer's instructions before and during testing (ASTM F 710).
- Test sites must be properly prepared and protected for the duration of testing to achieve valid results.
- Moisture Testing: Perform either the preferred In-situ Relative Humidity (RH) Test (ASTM F2170) or the acceptable Moisture Vapor Emission Rate (MVER) Test (ASTM F1869).
- ES-100™ System is warranted up to 100% RH and 25 pounds MVER when all specified requirements are met. Perform according to the ASTM F2170 requirements. All readings must be documented and stored for warranty registration. (2 Coats of the ES-MBP™ (Moisture Barrier Primer) are required to maintain a 100% RH warranty)
- Water Drop: Randomly check concrete subfloor for porosity using the drop water test. Place a dime size of clear water directly onto the concrete subfloor. If the water droplet does not dissipate within 60 to 90 seconds the subfloor is considered non-porous.
- Subfloor must be clean (free of dirt, sealers, curing, hardening or parting compounds or any substance that may stain or prevent adhesion), smooth, flat, sound, fit for purpose, free of movement.
- BOND TEST: Random Bond testing is required prior to the installation of the ES-100 system. See your tech rep for full details on an approved and documented bond test.

#### **ES-MBP (ENVIROSTIX™ MOISTURE BARRIER PRIMER)**

The use of Base King's ES-MBP™ (Moisture Barrier Primer) is required for the installation of EnviroSTIX™ applications for jobs over 99.0% RH (Using up to date meters that read past the decimal up to 100% RH. If your meters read a variance of 2-3 percent please make adjustments accordingly). Jobs under 99.0% RH can maintain the use of our other ES-Classic EnviroStix™ System.

**FOR USE ON:** Above and below grade concrete and all patching and leveling compounds. Before the application of the ES-MBP (EnviroSTIX™ Moisture Barrier Primer) the substrate must be prepped following ASTM F710. The floor must be flat, smooth, and free of any contaminants. Follow sub-floor condition requirements. Thoroughly clean the floor by sweeping, vacuuming, and/or mopping to remove all dust and debris.

**APPLICATION:** Shake ES-MBP™ (EnviroSTIX™ Moisture Barrier Primer) well before using. The use of a **¼ inch napped epoxy adhesive roller** is recommended. Do not pour ES-MBP™ (EnviroSTIX™ Moisture Barrier Primer) directly onto the substrate. Use of a 5-gallon bucket or a painters tray with disposable liners. Do not reuse your epoxy roller. A new roller will be needed with each application of primer. Apply a **smooth, thin, even coat** of primer using slight pressure working the primer into the substrate. Avoid leaving puddles or heavy roller bead/ lines. Cover all areas leaving no bare or dry spots rolling in

both directions. Allow the primer to completely dry. Normal dry time will vary, approximately forty to sixty minutes, check for dry to the touch. ES-MBP coat should soak into, or bond with the concrete, not to puddle on the surface. The ES-MBP coat must form a thin and entirely closed layer. Clean up all spills or over application to walls or base while the product is wet.

**TIPS:**

- Use a paint brush or small roller to cut in at the doorways and walls if necessary
- Back roll to remove fish eyes and/or voids to work into the pores.
- You must begin to install flooring within 72 hours after the ES-MBP™ (EnviroSTIX™ Moisture Barrier Primer) has cured.
- See primer container label for further details.
- **Removal of old adhesive must be done** by mechanical means such as shot blasting and diamond grinding. Selection of tools is to be determined by the installer and the job site conditions.

**SUBFLOOR PREPARATION**

**Concrete Subfloors**

1. Concrete subfloors must be finished according to ASTM F710 standards.
2. Concrete subfloors shall not consist of lightweight concrete or gypsum with less than 105 lbs. /cubic foot density (3000 psi). Follow ASTM F2678.
3. Remove all existing floor coverings and adhesives/residues, marking paint, permanent markers, crayons, and all other potential stains from the concrete surface before installing new flooring. Never mark the back of the flooring. Removal of old adhesives must be performed by mechanical means: scraping, scarifying, grinding, shot/bead blasting. The use of adhesive removers or solvents in the abatement or removal of existing or old adhesives is prohibited and will void all warranties. Contact our technical team for needed procedures.
4. Expansion joints, isolation joints, or other moving joints are incorporated into concrete floor slabs in order to permit movement without causing random cracks in the concrete. These joints must be honored and not be filled with underlayment products or other materials, and floor coverings must not be laid over them. Expansion joint covering systems should be detailed by the architect or engineer based upon intended usage and aesthetic considerations.
5. Leveling and Patching: Surface cracks, grooves, depressions, control joints or other nonmoving joints, and other irregularities shall be filled or smoothed with high quality Moisture Resistant Portland cement-based patching or underlayment compound. Caution: Do not lightly skim coat highly polished or slick power troweled concrete surfaces. A thin film of floor patch will not bond to a slick subfloor and may become a bond breaker causing tiles to release at the interface of the subfloor and patching material.
6. Always follow manufacturers' written recommendations for the use and installation of their appropriate surface preparation material.

**NOTE:** It is not recommended to install EnviroSTIX™ over concrete slabs with a history of hydrostatic conditions. Base King, LLC® also will not assume responsibility for floor covering failure due to hydrostatic pressure or moisture vapor emission exceeding the requirements set forth. The final responsibility for determining if the concrete is dry enough for installation of the flooring lies with the floor covering installer.

### **Wood**

It is not recommended to use ES-100™ Systems over wood substrates. Use over wood substrates will not be warranted by Base King, LLC®.

### **Existing Floor Covering**

To achieve maximum product performance, it is always best to remove existing floor covering and prepare the substrate before installing new products in commercial settings. Existing flooring can adversely affect the performance properties of the new flooring, such as indentation or adhesive bond. It is the floor covering retailer's or installer's responsibility to determine if the existing resilient floor covering is suitable as an under floor for installation. If there is any doubt about the suitability of the existing floor, remove it or cover it with an appropriate underlayment.

The existing resilient flooring should meet the following conditions:

- Be fully adhered (full-spread) and well bonded to a suitable substrate
- Consist of a single layer only
- Be free of all evidence of alkaline salts, hydrostatic pressure, or moisture from the substrate
- Not be a foam-backed or thickly cushioned product
- Not be a perimeter-fastened or loose-laid product
- Not be asphalt tile, self-stick tile, rubber tile, or surface containing residual asphalt-based adhesives

**LAYOUT:** Layout shall be specified by end user, architect or designer.

### **INSTALLATION PROCEDURES**

Before starting the installation of the materials with ES-100™ System, insure the previous preparations have been accomplished. Start of flooring installation indicates acceptance of current subfloor conditions and full responsibility for completed work.

- **Acclimation:** Make sure materials were properly acclimated according to the Manufacturers standards and instructions prior to installing.
- **Flooring Materials:** Check quantities of materials are sufficient for area to be installed. Check for visual defects before installation. Installation of flooring acknowledges acceptance of materials.
- **Inspect Substrate:** Make sure all surfaces to be covered are completely clean, dry and smooth and that all necessary subfloor preparation has been properly completed and documented.
- **Determine Layout**

- Start installing materials by peeling EnviroSTIX™ protective release paper and following the manufacturers product installation instructions. Keep each section of the subfloor free of debris, dust etc. as you install.
- Always leave the protective release paper on the product during the cutting stage.
- The floor must be rolled in both directions using a 100 -150 lb. 3-section roller. Roll the floor as soon as conditions permit. Roll floor again 90 degrees to the first row to assure good transfer of EnviroSTIX™ adhesive to the substrate.
- Clean up all debris as you work. Caution not to allow the adhesive film to make contact with the newly installed flooring surface. Clean up immediately to keep from attracting dirt.
- Immediate foot traffic and point and rolling loads can be utilized after installation.
- See manufacturer's instructions for waiting on washing the finished floor after installation.
- Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

#### **Helpful Tip**

- When placing the tile/ plank, the use of a slight mist of water on the substrate will help in adjusting the product. Use clean water; the spray bottle can be purchased from your local hardware store.
- Do not allow the adhesive film to make contact with the walls, baseboards or any other object except the intended sub-floor. Clean all areas with the appropriate adhesive remover.
- Dispose of release paper as you install, keeping immediate work area clean.
- Keep cut pieces and scrap flooring off installed surface. Adhesive residue on flooring surface can appear as visible scuffs as it attracts dirt.
- Any adhesive residue on flooring surface can be easily removed using a cloth dampened with mineral spirits or denatured alcohol. Never pour cleaning agent directly onto the LVF. Always apply to a clean white cloth first.

#### **SPECIAL CONSIDERATIONS**

1. Radiant Heat: ES-100™ system can be installed over Radiant heating (hydroponic) systems with readings up to 85.0% RH. The maximum temperature of the subfloor surface must not exceed flooring manufacturers temperature limitations. Before installing flooring products over newly constructed radiant-heating systems, operate the system at maximum capacity to force any residual moisture from the cementitious topping of the radiant-heating system. The hydroponic system must be running for a minimum of 7 days prior to the installation of our system. The heat must be turned off 24 hours before, during and 24 hours after installation on new and existing systems.
2. Direct Sunlight: Installations in areas where there is direct sunlight exposure for long periods of time should utilize window treatments prior to and during the installation, and for 48 hours after the installation.

#### **MAINTENANCE**

- For detailed recommendations, see your Flooring Manufacturers Maintenance Instructions.

#### **REPAIRS**

- See Flooring Manufacturers recommendations for repairs.
- If there is a Bond claim please see our ES-100™ system warranty for instructions on our Claims process or contact our technical team.

#### **DISCLAIMER**

- The responsibility of the suitability of the system for each individual case cannot be assumed, as the manufacturer has no influence on the proper application of the materials by the installer and or contractor. The directions for use were established on the basis of research, experience and tests believed reliable. Any liability on the part of the seller cannot be derived therefrom, verbal information is subject to written confirmation.
- The latest version of this installation sheet can be found at [www.baseking.com](http://www.baseking.com).
- This Installation sheet as of 11/29/2018 supersedes all previous versions.

**U.S Patent #'s: 9,409,344, 9,517,587, & 10,081,742. Other U.S and Canadian patents pending.**