
ES-2-GO™ Set Up and Application Instructions

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. 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 the ES-2-GO™ system is straightforward and similar to the installation procedures that apply to all quality flooring. Good preparation is essential for a trouble-free installation. Do not install the ES-2-GO™ system 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.

- EnviroStix™ Adhesive is recommended for use over properly prepared concrete, metal and other suitable substrates.
- Never install EnviroStix™ Adhesive over residual asphalt type (Cutback) adhesive as "Bleed Through" and bonding failure may occur.
- EnviroStix™ Adhesive is not suitable for external installation or unheated locations.
- EnviroStix™ Adhesive, 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 Primer (ES-P or ES-MBP) and EnviroStix™ Adhesive are installed.
- EnviroStix™ Adhesive 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, EnviroStix Primer (ES-P or ES-MBP), Flooring and job site to a stable installation condition as described in the Flooring Manufacturer's installation guides. ES-2-GO™ 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-2-GO (99.0%) System is warranted up to 99.0% RH and 18 pounds MVER when registered and 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-P™ (EnviroStix™ Primer) are required to maintain a 99.0% RH warranty)
- ES-2-GO (100% RH) System is warranted up to 100% RH and 25 pounds MVER when registered and 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 Testing:** Requirements for receiving a warranty on ES-2-GO™ (100) Jobs: (ES-2-GO™ (100) system Includes the proper use of ES-2-GO™ Adhesive rolls and the ES-MBP (EnviroStix™ Moisture Barrier Primer).)
 - Concrete subfloors must be finished according to ASTM F710 standards and the recommendations set forth on Page 4 under Substrate Preparation.
 - Prior to installation, random bond testing must be performed to insure proper adhesion of the primer to the substrate. For all projects no less than 3 separate areas shall be tested.
 - For the test...
 - Apply the ES-MBP in two very thin coats, in alternating directions, to at least 1 sq. ft. of the substrate in all of the selected areas.
 - The ES-MBP should soak into the open pores of the concrete surface, not layered on top.
 - Each coat takes 40-60 minutes to dry. Allow each coat to fully dry before moving to the next step.

Note: If the ES-MBP bubbles or turns white, you have applied it too thick, or a foreign substance is present in the concrete that is affecting the bond, and more cleaning, scraping, and/or grinding is necessary.
 - After the ES-MBP is dry, apply a small amount of flooring being used on the job, to the prepared area. Leave the bond test down for a minimum of 1 hour, 24-48 hours is preferable. When pulling up the test, if the ES-MBP stays securely on the floor, you are ready to proceed with the job.
 - To receive a full Base King 5-year limited warranty:
 - Pictures must be taken and sent to Base King, LLC, of each stage of the bond test. Send the pictures and ES-2-GO™ warranty registration to chad@baseking.com, so your warranty can be approved and documented for warranty registration.
 - Take pictures before and after the substrate is cleaned
 - After the ES-MBP is applied
 - A close up of the back of the flooring as it's being removed
 - And what the ES-MBP looks like after the material has been removed.
 - Copies of invoices for the Product, pictures of bond testing, records of bond testing results, substrate and jobsite moisture, pH and bond testing shall be retained by purchaser with all other jobsite test results. See your tech rep for further details and/or questions.

ES-2-GO System Options Include:

1. **ES-2-GO (99.0%):** The Application of the EnviroStix™ Adhesive applied to your modular flooring materials via the ES-2-GO™ Application / Laminating Machine. Then installed on top of (2) coats of our ES-P (EnviroStix™ Primer). This system is for use on projects up to 99.0% RH when installed according to the ASTM Standards, ES-2-Go™s & the Flooring manufacturers application/installation instructions.
2. **ES-2-GO (100% RH):** The Application of the EnviroStix™ Adhesive applied to your modular flooring materials via the ES-2-GO™ Application / Laminating Machine. Then installed on top of (2) coats of our ES-MBP (EnviroStix™ Moisture Barrier Primer). This system is for use on projects up to 100.0% RH when installed according to the ASTM Standards, ES-2-Go™, & the Flooring manufacturers application/installation instructions.

Set Up & EnviroStix™ Adhesive Application Instructions for the ES-2-GO™ Application / Laminating Machine: (2-Person Operation Recommended)

1. Set up the ES-2-GO™ Mobile Adhesive Application / Laminator Machine onto a workbench or waist high table properly securing it with the supplied ratchet strap across the bottom rails then under the table.
2. Locate the two bars with quick release screws on the top flat surface of the application table. These are your Material guides. Loosen the quick release screws so that the guides slide freely. Set your Material guides by using a piece of the flooring. Square up the edge of the flooring that faces the tape guide bar. The tape guide bar is the bar located in the slot where the adhesive feeds through the top of the machine. Hold the material into place while sliding the guide bar into place closest to the side of the machine you will be working on, then tighten the quick release screws on the guide. Pull guide #2 into place and tighten the Quick release screws. Over tightening the guides against the materials, will hinder it from smoothly sliding through the ES-2-GO™ machine. Once the guides are set into place for the flooring you are currently applying to you can remove the flooring from the top of the machine.
3. Installing your roll of adhesive:
 - Loosen the screw on the shaft chuck and open the chuck to remove the adhesive shaft.
 - Push the release button on the air bulb, making sure there is no air in the shaft.
 - Slide the adhesive tape roll onto the shaft with the open end hanging over the top edge facing toward the chuck opening side of the machine. Once your adhesive is facing the correct direction place the adhesive shaft back into its proper place. The shaft must be completely in the chuck or it will slide around making it hard to properly align your adhesive. Close the shaft chuck by tightening the screw.
4. Pull the adhesive flap through the slit of the machine, over the tape guide bar, and align the adhesive on the shaft to equally lay between the two material guide rails. Once you are satisfied with the alignment, use the air pump to pump up the air shaft to secure the roll.
 - Notes:
 - The adhesive rolls move easiest side to side by spinning them in the direction they need to go on the adhesive shaft.
 - Hold the adhesive roll with one hand while pulling the flap tight through the other side of the adhesive slit over the tape guide bar.
5. Leaving a few inches exposed and fold it over to cover the adhesive and form “the flap”. Lay your first piece of flooring on top of the adhesive and push it through the press roller. Worker 2 will then pull “the flap” evenly on the opposite side of the machine While Worker 1 pushes from the other.
6. Worker 1 will then place the next piece of flooring aligning it directly against the last piece and pushing it through the press roller.
7. Worker 2 will continue to pull the pieces through the opposite end. It is important to pull straight as to not wrinkle or move the adhesive between the guides. As each piece is far from the end of the

machine, worker 2 will make a gap in the adhesive by folding over the flooring and carefully cutting the adhesive free with a hook knife. Continue to apply/laminate the rest of your material according to the above full installation and set-up instructions.

8. Do random Quality Control checks. If re-alignment is needed try checking your material guides for square alignment. You can also make small adjustments by releasing the air from the air shaft and repositioning the adhesive roll to be centered between the material guides (remember to pump up the shaft once re-aligned. If small adjustments do not work a full adjustment is needed. Cut material free from the adhesive roll and re-do instructions 1-4.
 - o Note:
 - Material that has misaligned adhesive can be fixed by fix tape that is supplied with your order. Pull back the release paper on the modular flooring exposing the place that needs adhesive added.
 - If any lumps (boogers) or folds of adhesive are present on the material being fixed, remove those prior to repairs.
 - Use the fix tape to add adhesive where necessary. Fix tape placed directly over the top of flat adhesive will not show after time, lumps will.

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, patch, debris, marking paint, permanent markers, crayons, and all other potential stains and/ or containments from the concrete surface before installing new flooring. Never mark the back of the flooring. Removal of old adhesives need to be performed by mechanical means: scraping, scarifying, grinding, shot/bead blasting, DiamaBrush, etc. 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.
 - a. Anything left on the surface of the substrate, may keep the ES-MBP from bonding properly, or cause issues later if RH levels rise, from old glue re-emulsifying or old patch popping free.
 - b. The ES-MBP bonds in the pores of the substrate and a clean floor is essential.
 - c. If skimming before applying the ES-MBP, a moisture resistant patch must be used.
 - d. The ES-MBP will trap the moisture emission vapors in the concrete, and the skimming material being used. Make sure prep materials moisture limitations match or exceed the situation it is being used in.
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 non-moving 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™ or any ES system 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 the ES-2-GO™ System 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

PRIMER INSTALLATION

- **ES-P (EnviroStix™ Primer) & ES-MBP (ENVIROSTIX™ MOISTURE BARRIER PRIMER)**

The use of Base King's ES-MBP (EnviroStix™ Moisture Barrier Primer) is required for the installation of EnviroSTIX™ applications for jobs over a true 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 ES-2-GO (99) System w/ ES-P.

All bond warranties will be voided if (2) coats of the correct Primer are not used.

- **FOR USE ON:** Above and below grade concrete and all patching and leveling compounds. Before the application of the 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-P and/or ES-MBP well before using. The use of a 3/8" napped adhesive foam roller is recommended. Do not pour ES-MBP™ (EnviroSTIX™ Moisture Barrier Primer) directly onto the substrate. Use of a 5-gallon bucket and a bucket grid is recommended to coat the roller and remove excess 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. ES-P takes approximately thirty – forty minutes and ES-MBP takes approximately forty to sixty minutes to dry. Primer should be dry to the touch. If needed allow more time before installation starts and/or before applying second coat, as required. Second coat should be applied crossways or perpendicular to the first coat. Each coat should soak into, or bond with the concrete, not to puddle on the surface. Each 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:**
 - For the 100% RH system an Application kit is supplied for every job site. This kit is to show you the proper application materials. Extra kits are available for purchase or you can pick up all the parts at your local supply store like Home Depot or Lowes. Kit includes a 5-gallon bucket, 3/8" nap foam roller, a bucket grid, and a spray bottle. Make sure to properly clean and dry your bucket after every use.
 - 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-P (EnviroStix Primer) or the ES-MBP™ (EnviroSTIX™ Moisture Barrier Primer) has cured.
 - See primer container label for further details.
 - Removal of old adhesive may need to be done by mechanical means such as shot blasting, diamond grinding, and/or use of a DiamaBrush. Selection of tools is to be determined by the installer and the job site conditions.

MATERIAL INSTALLATION PROCEDURES

Before starting the installation of the materials with ES-2-GO™ System, ensure the previous preparations have been accomplished. Start of flooring installation indicates acceptance of current subfloor conditions and full responsibility for completed work.

- Material layout shall be specified by end user, architect or designer.
- 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

- If needed, 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-2-GO (100% RH) 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-2-GO™ 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. In every case, the user alone is fully responsible for any consequences deriving from the use of this product.
- The latest version of this installation sheet can be found at www.baseking.com.
- This Installation sheet as of 05/23/2019 supersedes all previous versions.