

Technical Data Sheet

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ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer)

- **Supplied By** : Base King, LLC
137 Lower Dug Gap Rd. SW,
Dalton, GA 30720
1-888-428-3106

Technical Information

Area of application 1-component reaction resin primer for

- priming porous subfloors
- priming non-porous subfloors
- reinforcing abraded concrete edges
- "green" concrete slabs
- concrete with residual moisture prior to installation of flooring
- Two coats of ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer) will block moisture in concrete slabs up to 25 lbs. / 1000 sq. ft. / 24 hours (ASTM F 1869) or up to 100 % RH (ASTM F 2170-02)
- Two Coats of ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer) can also be used to block moisture up to 6 lbs. / 1000 sq. ft. / 24 hours (ASTM F 1869) or up to 85 % RH (ASTM F 2170-02) over radiant heat.

Special properties



- 1) Based on the criteria of GEV (Association for Emission-controlled Laying Materials), classified as EMICODE EC1 PLUS R: very low in emissions
- 2) Meets Indoor Air Emissions criteria of: California Section 01350, CHPS, Indoor Advantage Gold™, FloorScore
- 3) LEED credits under 4.1
- 4) Meets criteria of Californian South Coast Air Quality Management District, rule 1168
- 5) Meets criteria of Bay Area Air Quality Management District solvent-free according to TRGS 610

- Suitable for wheelchairs
- Fast Curing
- Zero VOC



- Water resistant when cured
- Solvent Free
- No mixing required



- Approved for radiant heated floors



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Technical data

Raw material base	:	polyurethane resin
Form	:	Fluid
Color	:	Dark Translucent Coat
Odor	:	Characteristic
Drying time	:	approx. 40 - 60 minutes per coat, dependent on job site conditions
Cleaning agent	:	Mineral Spirits before primer cures
Storage time	:	12 months in tightly sealed containers
Storage temperature	:	70° F / 21° C recommended, not below +5°C, sensitive to frost. (Flooring Manufactures temperature recommendations supersede our own)
VOC Content	:	0.01%
GISCODE	:	RU1
EMICODE according to GEV	:	EC1 PLUS R

Application and consumption:

Application	Coverage
Foam adhesive roller	400 sqft per gal or 1,000 sqft per unit

- i. Coverage is dependent on surface structure and porosity of subfloor

Subfloors

All surfaces must meet the NWFA or RFCI Guidelines, the subfloor and the climatic conditions of the room must meet the requirements of ASTM F 710.

Surfaces must be structurally sound, solid, well fastened, clean and free from dust, oil, grease, paint, wax, old adhesive. Check for curing and parting compounds, surface hardeners and sealers which are

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known to interfere with the primer to concrete, as well as loosely bonded toppings, primers or any other deleterious substances that may prevent or reduce adhesion.

High density concrete surfaces which are power troweled or burnished need to be abraded with a DiamoBrush Removal Tool by Malish® grit 25 or similar to achieve a matte surface appearance. All remodels require the full removal of all old adhesives and debris from the job site prior to installing. We recommend the use of the above DiamoBrush, Diamond Grinding, and/or Shot Blasting to get a clean working surface.

Mechanically pretreat and thoroughly vacuum-clean calcium-sulphate-based screeds according to manufacturer's specifications or according to the currently applicable standards and codes.

Different job site conditions, which lie beyond our control, make it impossible to recommend just one source of mechanical preparation. Use of correct mechanical floor preparation on each job site is the responsibility of the flooring installer.

ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer) may only be used as moisture barrier on permanently moisture resistant subfloors and for blocking off capillary moisture.

ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer) may not be used on subfloors with permanently ascending moisture and steam diffusion. The product does not replace any waterproofing of building according to testing standards.

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).

EnviroSTIX™ ES-100 System is warranted up to the max stated limitation when all specified requirements are met. Perform 3 tests for the first 1000 sq. ft and one additional test per 1000 sqft thereafter. All readings must be documented and stored for warranty registration.

- 1) Two Coats of the ES-MBP are required to maintain a 100% RH warranty
- 2) Two Coats of the ES-MBP are required to maintain a 85% RH warranty on radiant heated floors
- 3) Do not use ES-MBP on subfloors with hydrostatic pressure.

New concrete

ES-100: For installations on moist concrete subfloors with moisture emission up to 25 pound / 1.000 sq. ft. / 24 hours (ASMT F 1869) or up to 100 % RH (ASTM F 2170-02) apply ES-MBP in 2 coatings cross rolled prior to the installation of the commercial grade flooring; prior to the installation.

Wood subfloors / underlayment

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

Terrazzo and ceramic tiles

Existing terrazzo and ceramic tiles must have full adhesion to the subfloor. Remove all residues of maintenance products and other materials that may inhibit a good adhesion. Abrade subfloor with grid 40 or 60 to ensure a mechanical bond

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Usage

SEE THE ES-100 SYSTEMS FULL INSTALLATION INSTRUCTIIONS DOCUMENT PRIOR TO INSTALLATION PRIMER. BELOW IS A SUMMARY OF HOW TO PROCEED.

Shake ES-MBP well before using. Apply evenly with foam roller, avoid puddles. First coat application roll in a cross directional pattern to insure a completely sealed surface layer. If ES-MBP is used as a moisture barrier, it must be applied crosswise in 2 layers. Each layer must form a thin, continuous film. Cure time is approximately 40 - 60 minutes per coat. After the primer has dried, but within 72 hours, carry out the EnviroSTIX™ adhesive / flooring installation.

Important

Do not use at temperatures below +15°C. In cold weather, warm up ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer) in due time in heated room. All information is based on approx. 20°C and 65% relative air humidity.

Do not use ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer) on existing floor coverings, like PVC, CV, rubber and linoleum floorings.

Low air humidity's as well as higher application quantities lead to extended drying times of ES-MBP (EnviroSTIX™ Moisture Barrier Polyurethane Primer). The surface has to be non-adhesive before conducting further operations.

During the work, it is recommended to use protecting goggles and gloves. If splashes are in the eyes, rinse with plenty of water and consult a physician. Splashes on the skin may be removed with water and soap. Cleaning must be done at once.

Disclaimer

We guarantee the uniform high quality of our products. The responsibility of the suitability of the primer for each individual case cannot be assumed, as the supplier has no influence on the proper application of the products by the installer and or contractor. All data is based on tests and many years of practical experience and refers to standardized conditions. The variety of materials used and the different construction site conditions, which lie beyond our control, preclude any claims based on this data. Any liability on the part of the seller cannot be derived therefrom, verbal information is subject to written confirmation. We therefore recommend making sufficient trials. Accompanying flooring manufacturer's instructions and the current applicable codes must be observed. In addition to these specifications the laying instructions of the covering manufacturer and the presently valid standards and information leaflets, especially the leaflet 'Polyester and Epoxy Resins' issued by the Trade Cooperative Association of the Chemical Industry obtainable from the Carl Heymanns Publishing House in Cologne must be observed. We gladly provide technical advice. The product data sheets can be found in their latest version at www.baseking.com or directly from your sales representative. This Technical Information of 12/19/2018 supersedes all previous versions.