



TECHNICAL DATA SHEET

EPX-MVB^{FS}



FLOOR COATINGS

MOISTURE VAPOR BARRIER

EPX-MVB FS is a two-component, 100% solids epoxy moisture vapor barrier and base coat designed to control moisture vapor emission from concrete slabs during the installation of resinous flooring systems. Applied directly to prepared concrete, it forms a dense, impermeable film that reduces moisture vapor transmission and will accept the broadcast of flake, and quartz floor systems. Its fast-set chemistry allows same-day top coating and faster return to service. EPX-MVB FS acts as both the moisture mitigation layer and the flake broadcast base coat in a single product, and is mold and mildew resistant.

APPLICATIONS

EPX-MVB FS is formulated as a moisture vapor barrier and flake base coat where elevated moisture vapor emission is a concern. It is used as the base coat in epoxy flake and colored quartz systems, providing both moisture control and a bond coat for broadcast media. With proper surface preparation, it is applied directly over profiled concrete. Uses include:

- Moisture Vapor Primer
- Flake Floors
- Quartz Floors

ADVANTAGES

- Controls concrete moisture vapor emission
- Serves as both moisture vapor barrier and flake/quartz base coat
- Fast-set - same-day flake broadcast and faster recoat

- Low VOC's
- High-solids (100% solids)
- Good chemical resistance
- High mold and mildew resistance
- Excellent abrasion resistance

PHYSICAL PROPERTIES

Working Time	12-15 mins
Mix Ratio	2:1 (A:B) by Volume
Coverage Rate	80-90 sq ft/gal
ASTM E96 (1 coat @ 20 mils / 75F & 50% RH)	
WV Transmission:	0.10 lb-in
WV Permeance:	0.04 grains/ft ² h
Specific Gravity	
Side A:	1.13 ± 0.1
Side B:	1.02 ± 0.1
Recoat Time	3-6 hours
Light Traffic	24 hours
Heavy Traffic	48 hours
Full Cure	5 days

Available in

- 1.5-gallon Kit
- 3-gallon Kit

Shelf Life

1 year in original unopened container.

Storage Conditions

Recommended storage temperature is between 75°F to 85°F. Do not store below 55°F or above 85°F.

Consistency

Viscous liquid

Pot Life

Approx. 12-15 minutes
(at 72°F)

Appearance

Amber (tint recommended)

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MATERIAL COVERAGE PER GALLON

Coverage rate will vary based on concrete porosity, finish, and environmental conditions. EPX-MVB FS must be applied at a continuous, pinhole-free film to function as a moisture vapor barrier. Typical installations will yield 80 –90 sq ft per gallon when installed at 20 mils thick.

SURFACE PREPARATION

Concrete surfaces must be properly prepared using mechanical grinding or shot blasting, clean and dry.

Bare Concrete

Concrete must be mechanically ground or shot-blast to a profile resembling ICRI-CSP 2–3. The concrete must be at least 28 days old. Vacuum thoroughly to remove all dust and debris. Do not use water to clean the floor prior to application. EPX-MVB FS is applied directly to the prepared concrete; no primer is required beneath it.

APPLICATION RECOMMENDATIONS

Ensure the surface is clean and thoroughly dried. Apply EPX-MVB FS over prepped concrete at a rate of 20mils with a notched squeegee and back-roll with a 3/8" nap roller to achieve a uniform, continuous film and minimize air entrapment. An even, pinhole-free film is critical to moisture barrier performance.

If broadcasting decorative flake or quartz, broadcast into the wet base coat immediately after application, before the material begins to tack; do not back-roll when broadcasting. Because EPX-MVB FS is fast-setting, mix and place in manageable sections sized to the working time - higher temperatures shorten it further.

Clean rollers and tools with acetone or MEK before the material cures. This product is best applied at a temperature range of 50°F to 85°F, with humidity at 20% to 60%.

LIMITATIONS

This product is sensitive to alcohols and liquid epoxy materials. Contamination with alcohols such as isopropyl alcohol (IPA) or benzyl alcohol will cause product failure, foam, and excessive heat while mixing and applying. Contamination with liquid epoxy materials will also cause excessive heat and product failure. Do not re-use previously opened containers. Must be applied as a continuous, pinhole-free film to function as a moisture barrier.

FIRST AID

Remove contaminated clothing. If Inhaled: Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. If on the skin: Wash affected areas thoroughly with soap and water. If in the eyes: In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If swallowed: Rinse mouth and then drink plenty of water. Do not induce vomiting. Obtain medical attention.

WARRANTY

HTS warrants its products to be free of manufacturing defects will meet current published physical properties when applied in accordance with HTS directions and tested in accordance with ASTM and HTS standards. There are no other warranties by HTS of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HTS shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.

