Miracote MiraPrime MVERS is a fluid-applied uniquely modified epoxy moisture mitigation system. It is designed to be used as an above- and below-grade vapor retarder that is placed on the negative side of the concrete substrate. As a vapor emission suppressor, one application of MiraPrime MVERS will withstand moisture vapor emission rates of up to 10 lbs/1000 sq/ft/24 hrs. Two applications will withstand moisture vapor emission rates of up to 15 lbs/1000 sq/ft/24 hrs. It is recommended for use under impervious non-breathing flooring systems that cannot withstand moisture vapor transmission levels with moisture vapor emissions rates above the floor covering manufacturer’s recommended levels.

Miracote MiraPrime MVERS is ideal for use under the vast majority of non-breathing flooring systems, including epoxies, urethanes, rubber, adhesives (for carpet, vinyl and wood), vinyl tiles, vinyl sheet goods, woods and other impervious flooring systems.

As a general rule, most flooring manufacturers (rubber-backed carpet, tile, vinyl, wood or resinous) do not recommend installing their products on concrete surfaces having moisture vapor emission rates level in excess of 3.0 lbs. of moisture emission over a 1,000 square foot area during a 24 hour time period as measured by an anhydrous Calcium Chloride Test Procedure tested in accordance with ASTM F1869.

Miracote MiraPrime MVERS is applied in either single application of 7 mils wet/dry film thickness or two applications at 7 mils wet/dry film thickness per each coat. If vinyl tile, rubber, wood or other manufacturer flooring is the final flooring, a polymer modified cementitious intermediate coat is applied to provide for proper adhesion of the finished flooring system. Miracote resinous flooring systems may be applied directly to the Miracote MiraPrime MVERS system. Consult Crossfield for recommendations regarding potential intermediate coating products for non-Miracote products.

Formulated with environmental requirements in mind, Miracote MiraPrime MVERS contains no hydrocarbon solvents and thus meets all volatile organic substance regulations. Miracote MiraPrime MVERS has no significant odor during installation.

ADVANTAGES
- Reduces or eliminates effects of moisture vapor emissions.
- Excellent adhesion to concrete.
- Convenient 3:2 by volume mix ratio.
- High compressive, flexural and tensile strengths.
- Installed only by Professional Factory Trained Miracote Contractors.
- Available through Miracote distributors.

COVERAGE RATES
225 sq. ft./gal @ 7.0 mils WFT per coat.

PACKAGING and COLORS
Kit Sizes: 1.25 gal, 2.5 gal and 25 gal

MIX RATIO
Three parts by volume Comp. A to two parts by volume Comp. B

SHELF LIFE AND STORAGE
Shelf life will be one year from the date of manufacture as long as containers remain unopened and when material is stored in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

WHERE TO USE
Miracote MiraPrime MVERS is placed directly on properly prepared, strong and durable concrete substrates. The day after placement, the intended (impervious non-breathing) flooring system can be placed.

Caution: Concrete must be a minimum of 14 days old at time of application. Contact Crossfield for recommendations if fully cured concrete displays a moisture emissivity greater than 15 lbs/1000 sq/ft/24 hrs per ASTM F1869.

TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion</td>
<td>400 psi (100% failure in concrete exposed to moisture vapor emission)</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>12,000 psi</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>4,200 psi</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>2.7%</td>
</tr>
<tr>
<td>Pot Life</td>
<td>25 Minutes @ 76°F (24°C)</td>
</tr>
<tr>
<td>Microbial Resistance</td>
<td>Passes Rating 1</td>
</tr>
<tr>
<td>Alkali Resistance</td>
<td>Resistant</td>
</tr>
</tbody>
</table>

FOR BEST RESULTS
Install a minimum 4’ by 4’ test area site mock up for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
Verify current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guidelines (IG) at www.miracote.com.
Protect materials from excessive heat and cold and regularly check wet film thickness with mil gauge and monitor consumption to ensure correct application thicknesses and rate are obtained.

OVERVIEW OF INSTALLATION STEPS
- Apply Miracote MiraPrime MVERS to prepared dry substrate of a CSP 3 - 5 at a coverage rate of 225 sq. ft. (20.9 sq. m) per gallon.
- Allow to dry time between coats 8 – 10 hours cure time at 75 Deg. F / RH 50.
- For moisture mitigation up to 15 lbs/1000 sq/ft/24 hrs a second application of MiraPrime MVERS is required, at 225 sq. ft. per gallon.
- Allow to cure a minimum of 8 – 10 hours prior to placement of surfacing material.
LIMITATIONS

- Minimum ambient and surface temperatures of 55°F (7°C) required during installation.
- If sub-surface cracks, Miracote MiraPrime MVERS may reflect those cracks to some degree.
- Is not a substitute for a functioning vapor barrier beneath slabs.
- Prior to placement of third party flooring systems on top of Miracote MiraPrime MVERS, check to make sure adhesive bond strength can be developed.
- Miracote MiraPrime MVERS is a topical treatment; therefore it is not a remedy for the causes of ASR (alkali silica reaction).

Moisture vapor transmission (MVE) in excess of 3.0 lbs./1000 sq ft per 24 hr. period per ASTM F1869 may result in delamination, discoloration or improper curing. Use Miracote MiraPrime MVERS vapor control membrane over substrates, which have MVE emissions that exceed these limits. Consult with Crossfield prior to using Miracote MiraPrime MVERS if moisture vapor transmission exceeds 15 lbs./1000 sq/ft/per 24 hr period per ASTM F1869.

PRODUCT AVAILABILITY

Crossfield Products Corp. maintains offices and factories at addresses listed below. Miracote products are available for purchase through reputable distribution in the building trades.

SPECIFICATION ASSISTANCE

Consult Crossfield Products Corp. for specification assistance, detailing, etc. This consultation is highly recommended prior to specification.

CHEMICAL RESISTANCE

See Crossfield Products Corp., Chemical Resistance Guidelines for chemical resistance of a product or system, as well as the types of test performed:

- Crossfield Products Corp. Proprietary Testing

Note: Chemical resistance is a functional test, usually limited to changes in weight or thickness measured in loss or gain and does not evaluate subject aesthetic issues. To determine aesthetic issues, Crossfield recommends testing the products or system in accordance with intended end use.

TESTING

The technical data contained herein is the result of tests made in Crossfield’s laboratories or in independent laboratories using small scale equipment, following generally accepted trade practices. Although this information is believed to be true and accurate, the use of different equipment for testing under dissimilar conditions or the testing of samples produced under dissimilar conditions may develop substantially different results.

LIMITED WARRANTY

No warranty shall be effective until the terms and conditions of sale set forth in Crossfield Products Corp. invoices are met.

Crossfield Products Corp. warrants to the purchaser of its products that such products are free from manufacturing defect. Crossfield does not warrant or guarantee the workmanship performed by any person or firm installing its products. Crossfield’s obligation under this warranty is limited solely to the original purchaser and solely to the remedy of replacement in kind of any product which Crossfield sold which may prove defective in manufacture within one year from date of installation, provided said product was stored correctly and installed within the product’s shelf life, by the original purchaser and which Crossfield’s examination shall disclose to Crossfield’s satisfaction to be thus defective.

In no event shall Crossfield Products Corp. be liable for any incidental or consequential damages. This warranty is expressly given in lieu of all other warranties expressed or implied, including the warranties of merchantability and fitness for use and all other obligations or liabilities on Crossfield’s part, and we neither assume nor authorize any person or persons to assume for us any other liability in connection with sale of a Crossfield product. This warranty shall not apply to any of Crossfield’s products, which have been subject to adulteration, alteration abuse or misuse. Crossfield Products Corp. makes no warranty whatsoever in respect to accessories, parts or material not supplied by Crossfield Products Corp. which are used in connection with its products. The term “original purchaser” in this warranty means that person, corporation or entity to whom Crossfield Products Corp. sold its products. Any action to enforce any warranty or for breach of contract or arising out of any claim against Crossfield Products Corp. shall be commenced and maintained only in a court of competent jurisdiction in the continental United States of America. The purchaser accepts these terms and conditions, and hereby expressly waives any claim to additional damages.

CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.