MVR 8000
Moisture Vapor Reducer

SURFACE PREPARATION

DESCRIPTION:
MVR 8000 Moisture Vapor Reducer is a polymer based, solvent free product that will reduce elevated vapor emission levels on properly prepared concrete to levels acceptable for installation of Broadloom carpet, carpet tile and resilient floor covering when used as directed. Not recommended for use with any type of wood flooring. Refer to Millennium Series EMC or Millennium Series IFS when installing wood flooring. Additionally, MVR 8000 can be used to encapsulate old adhesive residue, seal dusty substrates, reduce porosity of gypsum and is alkali resistant. MVR 8000 was developed for use on "Green" concrete slabs in fast track construction. The use of MVR 8000 allows the flooring contractor to install the flooring in as little as 28 days.

If you have a concrete substrate that has elevated moisture levels AND old adhesive residue the old adhesive MUST be completely removed prior to using MVR 8000.

When used as a moisture vapor reducer over concrete slabs the ***concrete must be porous***, so that the MVR 8000 can penetrate into the pores of the concrete. To test for porosity, place 1" droplets of water over various locations throughout the installation. If the water does not significantly absorb into the concrete within 1 minute the concrete must be treated as non-porous. Preparation methods include but are not limited to grinding, scarifying, or bead blasting according to industry standards. The concrete must also be clean and free of dust, dirt, wax, sealers, curing compounds, or any foreign substance that would prohibit the MVR 8000 from penetrating into the concrete. ***IT IS HIGHLY RECOMMENDED TO ONLY USE PREMIUM ADHESIVES FOR THIS TYPE OF EXTREME APPLICATION (*** i.e. recommended adhesives:
Signature Series 4099, Signature Series 5080, Signature Series DS902 – Fusion Series 4500, Fusion Series 5082, Fusion Series 4600, Fusion Series 4700, Fusion Series 4323).
MVR 8000 can be used over wood or concrete substrates with old adhesive residue prior to the installation of new flooring. MVR 8000 can be used to encapsulate old black asphalt adhesive residue. **DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVE, OR OTHER BLACK ADHESIVE. THESE PRODUCTS MAY CONTAIN ASBESTOS FIBERS AND/OR CRYSTALLINE SILICA.** Old adhesive residue MUST be scraped down and smooth to the touch prior to applying two coats of MVR 8000. When encapsulating old adhesive MVR 8000 will not reduce the MVER from the concrete slab.

Application:
The installation area must be properly acclimated at a minimum temperature of 65 degrees F and Relative Humidity below 60%. The HVAC system must be running and doors and windows must be attached to achieve a secure environment.
Saw cuts, construction joints, etc. should be thoroughly cleaned and treated as follows prior to the application of MVR 8000.

- Using a paintbrush, thoroughly coat all surfaces of the joint or crack with MVR 8000 to ensure that a continuous membrane will be achieved once the application of MVR 8000 has been completed, OR
- Using a filler material intended for that purpose, fill the joint or crack to just below the surface level of the concrete so that a continuous membrane of MVR can be achieved.
- Expansion joints should not be bridged. H.B. Fuller Construction Products does not warrant against film breakage due to movement of concrete joints and cracks.

Moisture Vapor Reduction:
Concrete must be **POROUS**, clean, visibly dry, free of dust, dirt, wax, sealers or curing compounds or any foreign chemical that would prohibit MVR 8000 from penetrating into the concrete. When used to reduce moisture levels in concrete from a maximum of 9-lbs (ASTM F-1869) or Relative Humidity levels of 85% (ASTM F-2170) apply material in a one-coat application. When used to reduce moisture levels in concrete from a maximum of 12-lbs (ASTM F-1869) or Relative Humidity levels of 90% (ASTM F-2170) apply material in a two-coat application. Testing for alkalinity should be done using pH paper, pencil or digital meter, with readings not to exceed 11. Patch and level any areas after the MVR 8000 has dried using a Portland based cementitious patching compound (Parabond PP+, Parabond PFU).

Coverage in a two-coat application is approximately 225 sq. ft. per gallon depending on porosity of the concrete. (We suggest that you mask off a 300-ft area and use a minimum of 1-gallon for the first-coat. Pour MVR 8000 into a paint tray and roll using a 3/8" nap paint roller (Do not pour MVR 8000 directly on the substrate). Do not allow MVR 8000 to puddle. Remove any puddles by moving excess material away from puddle area. Allow to dry to the touch (approximately 1-hour) prior to the application of the

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second-coat. Apply the second coat using a short nap paint roller at a 90-degree angle to the first coat. Allow to dry for 24-hours prior to the installation of floor covering.

Encapsulant:
Covering old adhesive residue requires two coats of MVR 8000. Pour a generous amount of MVR 8000 into a paint tray and spread using a 3/8" nap paint roller (Do not pour MVR 8000 directly on the substrate). Spread in one direction and apply enough to cover old adhesive residue. Remove any puddles by moving excess material away from puddle area. Allow material to dry to touch (minimum of 1- hour) before applying the next coat. For the application of the second coat, cross roll at a 90-degree angle from the original coat using a short nap roller. The second coat will require less material than the first coat. Once the second coat is applied allow to dry for 24-hours before installation begins. If patching or leveling is required, use a Portland based cementitious patching compound (Parabond PP+, Parabond PFU) after MVR 8000 has been allowed to properly dry.

Bond Test:
Parabond requires 48 hour bond tests to be performed to ensure compatibility of the flooring adhesive with MVR 8000. Bond tests must be a minimum of 24" x 24".

Clean Up:
MVR 8000 can be cleaned using warm water and soap prior to drying. Once dried, the material will need to be scraped or mechanically removed.

Coverage:

Encapsulant -	2 coats:	225 sq, ft. /gallon
Moisture Reducer -	1 coat:	300 sq. ft. /gallon
Moisture Reducer –	2 coats:	225 sq. ft. /gallon

CALIFORNIA VOC (Volatile Organic Compound) **COMPLIANCE:**
SCAQMD Rule 1168: VOC compliant sealant.
SCAQMD Rule 443.1: Grams of VOC per Liter of Material < 86 grams/liter.
Grams of VOC per Liter of Coating < 26 grams/liter

WARNING!
Follow the RFCI's Recommended Work Practices for Removal of Resilient Floor Coverings.

Specific exclusions include but are not limited to:

- Improper Maintenance
- Use with Wood Flooring (Refer to Millennium Series EMC or IFS)
- Installation in a facility without a functioning HVAC
- Use over a concrete slab with moisture vapor emission levels above 9 lb's or 85% when tested in accordance with ASTM F-1869 and/or ASTM F-2170 respectively using a single coat application
- Use over a concrete slab with moisture vapor emission levels above 12 lb's or 90% when tested in accordance with ASTM F-1869 and/or ASTM F-2170 respectively using a double coat application
- Use over a concrete sub-floor with a pH above 11
- Use over a concrete sub-floor that has adhesive residue when trying to control Moisture Vapor Emissions
- Use over Expansion Joints.
- Use where Hydrostatic Pressure is present
- Film Breakage due to cracks in the concrete substrate
- It is the sole responsibility of the installer to determine the suitability and compatibility of the adhesive for the user's intended use.

WARRANTY:
H.B. Fuller Construction Products offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical service at 800-832-9023 or visiting www.parabond.com.

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