



Moisture Lock 9000 Moisture Control System

PARABOND ACCESSORIES

DESCRIPTION:

Moisture Lock 9000 is a one-coat, 100% solids moisture vapor reduction system. MOISTURE LOCK 9000 is formulated for use on concrete slabs containing elevated levels of moisture vapor emission. MOISTURE LOCK 9000 can be used on concrete slabs having moisture levels as high as 100% RH when tested in accordance to ASTM F 2170 Test Method. Moisture Lock 9000 is extremely dense with a perm rating of 0.06 grains/ft²/hour in Hg⁻¹.

MOISTURE LOCK 9000 is compliant with all state and federal VOC regulations with a VOC content of <10 g/l and qualifies for LEED Indoor Environmental Quality Credit EQ 4.2 (Low-Emitting Materials, Paints and Coatings).

****LEED points are based on all materials used on a project***

MOISTURE LOCK 9000 is formulated for new or existing concrete floors with moisture and/or alkaline conditions which prevent the installation of floor covering systems. MOISTURE LOCK 9000 may be installed on concrete with pH of 14 and moisture vapor emissions rates up to 25+ lbs/ 24hr/1000 ft² or 100% RH.

RECOMMENDED SUBSTRATES:

- Concrete

SUBSTRATE PREPARATION:

Concrete substrates to receive MOISTURE LOCK 9000 must be structurally sound, solid, porous and meet acceptable industry standards. Surfaces shall be dry, clean, smooth, and structurally sound. They shall be free of dust, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, film-forming curing compounds, silicate penetrating curing compounds, sealing, hardening, or parting compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, and other foreign material that may act as a bond breaker. Building envelope must be in place and environmentally stable prior to product application.

It is the owner or owner's representative's responsibility to test the slab for contaminants.

Royal Adhesives & Sealants suggests older, existing concrete slabs be cored and analyzed for various contaminants such as sulfurous salts, ASR (Alkali Silica Reaction), unreacted water soluble silicates and any other disruptive substances that may interfere with proper adhesion.

All patching, leveling materials, adhesives and old coatings must be entirely removed prior to the MOISTURE LOCK 9000 application.

Mechanically prepare the substrate to an ICRI Concrete Surface Profile (CSP) of 3 or 4. (Acid etching is not permitted) According to ASTM F3030-13 acceptable methods include shot blasting, scarifying, or grinding. Grinding is only acceptable in areas where the shot blast or scarification equipment cannot reach. Grinding entire area, acid etching, waterblasting, or sanding, are not acceptable methods of concrete surface preparation.

Broom sweep and vacuum the concrete surface. Do not use sweeping compounds that may contain oil.

MIXING:

Pour Part B into Part A and mix with a low speed drill (<400 rpm) using an epoxy mixing paddle for a minimum of 3 minutes and a homogenous mix (uniform color / no streaks) is obtained. Do not over mix as the pot life will be reduced. Pot life is 12 minutes at 70°F and can be reduced by higher temperatures.

Mix full units only; do not mix partial components, or alter components in any way. Material components should be a minimum of 60°F (15°C) at time of mixing. Once the material is mixed, pour it on the substrate immediately. If allowed to stand in container it will generate heat and pot life will be greatly reduced.

APPLICATION:

Concrete substrate and ambient room temperature must be between 50°-90°F (10°-32°C) with relative humidity not exceeding 80% during and a minimum of 16 hours after application.

Proper application is best achieved by utilizing a grid system on the floor based on the proper spread rate needed. Ensure the material is applied at the required coverage rate by staying within the grid per unit/container.

Use a notched squeegee to apply material using a one coat application and a short 3/8" nap roller to smooth as needed. Once material is applied using the squeegee, use the paint roller to work the material into the substrate and remove any pinholes that may have formed. Always use the paint roller perpendicular to the squeegee (90 Degrees) creating a uniform pattern with no bare areas. Wear spiked shoes while walking on wet coating.

Allow coating a minimum of 4 hours prior to installation (until it is tack-free to the touch), this may vary due to temperature and humidity.

863 SE Main Street • Simpsonville, SC 29681

Phone: 1-800-763-7272 • ISO 9001 Certified

www.parabond.com

1/21/2014



Moisture Lock 9000 Moisture Control System

PARABOND ACCESSORIES

The surface of MOISTURE LOCK 9000 must be tack-free prior to installing floor covering. MOISTURE LOCK 9000 must be protected from dirt and debris and cannot remain uncovered for more than 48 hours. If ML 9000 is allowed to remain uncovered longer, it must be buffed / cleaned with an abrasive nylon pad; or re-coat and broadcast sand. Once tack-free, prime with NP-630 primer, then apply Parabond Micro Finish, Para-Patch Plus or PFU self-leveler and follow floor manufacturers installation instructions.

COVERAGE:

CALCIUM CHLORIDE GUIDELINES:

Up to 25 lbs/1000 ft²/24hr = 100 ft²/gal; approximately 16 mils

RELATIVE HUMIDITY GUIDELINES:

90 – 100% RH = 100 ft²/gal approximately 16 mils

Application Temperature 50°F to 90°F (10°-32°C)

Flash Point > 200°F (93°C)

Viscosity

Part A 9,000-15,000 cps

Part B 1500 - 2500 cps

Mixed 3000-5000 cps

Odor Mild

Pot Life @ 72°F - 12 minutes

Working Time – 30-45 minutes

Cure Time* 4 hours

VOC Content <10 g/L

CLEAN-UP:

Immediately clean all tools and equipment with soap and water or a mild solvent. Once cured, this material can only be mechanically removed.

TREATMENT OF STATIC CRACKS & CONTROL JOINTS:

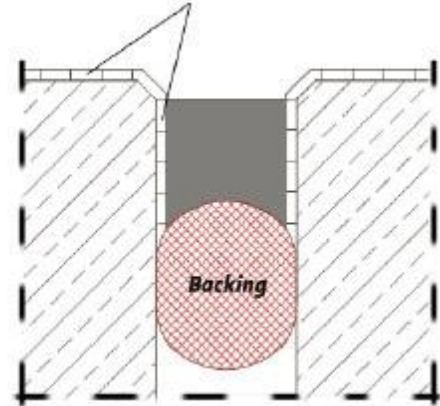
Contaminates often exist in cracks. Clean cracks and control joints with a 1/4" wide grinding wheel and vacuum out debris.

Shrinkage cracks and control joints may be filled with a mixture of MOISTURE LOCK 9000 and clean silica sand. Add sand to MOISTURE LOCK 9000 to create a filler paste that can be troweled into cracks. Apply MOISTURE LOCK 9000 directly over the filled cracks during the subsequent coating process.

TREATMENT OF DYNAMIC EXPANSION & ISOLATION JOINTS:

Expansion Joints, Isolation Joints or other moving joints in the concrete must not be filled or sealed with rigid materials. All moving joints must be honored up through the moisture mitigation system, any patching and leveling products, and the resilient floor covering being installed.

MOISTURE LOCK 9000



RESTRICTIONS:

1. For Interior installations only.
2. **DO NOT USE** Moisture Lock 9000 over any gypsum or lightweight concrete.
3. ML 9000 is not designed to be floor leveling product.
4. Do not install over adhesive residue including cutback.
5. Do not install when ambient temperature is not between 50°F & 90°F. (10°-32°C)
6. The concrete surface must be at least 5°F (-15°C) above the Dew Point Temperature.
7. Avoid application where ambient relative humidity is above 95% or concrete surface is wet.
8. It is the sole responsibility of the installer to determine the suitability and compatibility of the product for the user's intended use.

PACKAGING:

- 1.75 gallon kit

WARRANTY:

Royal Adhesives and Sealants 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 800 763-7272 or visiting www.parabond.com.

863 SE Main Street • Simpsonville, SC 29681

Phone: 1-800-763-7272 • ISO 9001 Certified

www.parabond.com

1/21/2014