SECTION 09 61 00

MOISTURE VAPOR EMISSION CONTROL

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\*\* NOTE TO SPECIFIER \*\* ISE Logik Industries; moisture vapor emission control.  
This section is based on the products of ISE Logik Industries, which is located at:  
14231 Seaway Rd. Suite 1003  
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Email: [request info (decraft@iselogik.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=ISE+Logik+Industries&coid=49683&rep=&fax=&message=RE:%20Spec%20Question%20(09610ise):%20%20&mf=)  
Web: [http://www.iselogik.com](http://http://www.iselogik.com)   
 [ [Click Here](http://www.arcat.com/arcatcos/cos49/arc49683.html) ] for additional information.  
ISE Logik Industries is strategically located in Gulfport, MS, allowing for a geographical central hub for our clients throughout the Americas. From our state of the art chemical manufacturing facility and distribution logistics center in Gulfport, to our distribution logistics centers in Columbus, OH and Latin America, we are well positioned to supply each region in a timely manner.  
ISE Logik Industries combines top individuals from the concrete moisture vapor reduction (MVRA) and floorcovering technical consulting markets, and chemical, civil, concrete engineers under one umbrella, bringing unequalled full-spectrum expertise to each and every project.

1. GENERAL
   1. SECTION INCLUDES
      1. Moisture vapor emission control system for interior concrete slabs in preparation of floor covering installation, includes:
         1. Moisture vapor emission control solution.
         2. Bond promoter.
   2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 06 00 - Schedules for Concrete.
    2. Section 03 30 00 - Cast-in-Place Concrete.
    3. Section 07 27 19 - Plastic Sheet Air Barriers .
    4. Division 9 Sections for floor coverings applied to concrete substrates.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM D7234 - Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers.
       2. ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
       3. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
       4. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
       5. ASTM F3191 - Standard Practice for Field Determination of Substrate Water Absorption (Porosity) for Substrates to Receive Resilient Flooring.
    2. International Concrete Repair Institute (ICRI):
       1. ICRI Guide 310.2R - Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays and Concrete Repair.
    3. U.S. Green Building Council (USGBC):
       1. Leadership in Energy and Environmental Design (LEED).
  1. DEFINITIONS
     1. MVE: Moisture vapor emission.
     2. MVER: Moisture vapor emission rate.
  2. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete paragraph if not required.

* + 1. Sustainable Design Submittals:
       1. Product Data: Indicating VOC content.
       2. Laboratory Test Reports: Indicating compliance with low-emitting material requirements.
    2. Quality Assurance Submittals:
       1. Qualification Data: For Applicator.
       2. Product Test Reports: For MVE-control system, indicating compliance with requirements.
       3. Field quality-control reports.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section and employs technical-support personnel who are available for product training.
     2. Installer Qualifications: Company specializing in performing Work of this section and trained and approved by the manufacturer.
     3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project. Delete if not required.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
       1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
       3. Retain mock-up during construction as a standard for comparison with completed work.
       4. Do not alter or remove mock-up until work is completed or removal is authorized.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
  2. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: ISE Logik Industries, which is located at: 14231 Seaway Rd. Suite 1003; Gulfport, MS 39503; Toll Free Tel: 877-549-5159; Tel: 585-474-3553; Email: [request info (decraft@iselogik.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=ISE+Logik+Industries&coid=49683&rep=&fax=&message=RE:%20Spec%20Question%20(09610ise):%20%20&mf=); Web: [http://www.iselogik.com](http://http://www.iselogik.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. PERFORMANCE REQUIREMENTS
     1. Flooring products shall comply with the requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
  2. MVE-CONTROL SYSTEMS
     1. Moisture Vapor Emission (MVE) Control Solution: A no limit moisture vapor emission control solution.
        1. Basis of Design: MVEC-710; as manufactured by ISE Logik Industries, Inc.
        2. Approved for use with all flooring systems and types.
        3. No moisture testing required prior to use.
     2. Bond Promoter: A one-part next generation bond promoter surface texturizer, encapsulator, and pH barrier.
        1. Basis of Design: MVBP-600; as manufactured by ISE Logik Industries, Inc
        2. Designed for use over MVEC 710 moisture vapor emission control system.
        3. Evidences long-term resistance to water and humidity.
        4. Resistant to solvents, chemicals, and corrosion.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly constructed and prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
      3. Verify that concrete has achieved a minimum of 3000 psi, or 80 percent of design strength, whichever is greater.
      4. Verify that no hydrostatic pressure exists.
   2. PREPARATION
      1. Prepare according to manufacturer's written instructions, industry guidelines, and as follows:
         1. Clean concrete substrates of foreign substances in accordance with ASTM F710 to include, but not limited to, adhesive residue, floor sealers, curing compounds, wall plaster and joint compound, cleaning compounds, wax, oil, dirt, or other substances that could interfere with or block the absorption of product into the concrete surface.
         2. Absorption Testing: Comply with ASTM F3191 to verify an absorptive/porous concrete surface. If substrate does not comply, abrade concrete surface to a concrete surface profile (CSP) complying with ICRI 310.2R CSP 1 to 3 to ensure an absorptive/porous substrate per ASTM F3191.
         3. Bond Testing: Apply system to 100 sq. ft. (9.29 sq. m.) of prepared concrete substrate and test according to ASTM D7234. Proceed with application when bond strength is greater than 200 psi (1.38 MPa) with failure of concrete substrate.
      2. Fill and seal cracks with polymer-fortified cementitious patching and leveling compound, installed according to manufacturer's instructions. Do not fill expansion joints or other moving joints.
      3. Protect adjacent surfaces during application.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions, approved submittals and in proper relationship with adjacent construction.
         1. Do not overapply or allow puddles. Remove excess material with manufacturer's recommended trowel to ensure even distribution.
      2. Cure MVE-control solution a minimum of 8 hours, and in accordance with manufacturer's instructions.
      3. After curing, repair surface defects, such as pinholes or bubbles with additional MVE-control solution.
      4. Apply bond promoter to surface of MVE-control solution: Apply according to manufacturer's instructions and recommended spreading rate:
         1. Roll and cross roll to provide uniform, monolithic surface.
         2. Cure for a minimum of 1 hour, and in accordance with manufacturer's instructions prior to applying flooring adhesives.
   4. FIELD QUALITY CONTROL
      1. Inspect applied system for non-conforming work.
   5. CLEANING
      1. Immediately clean MVE-control system from glass and metal with soap and water, and dry.
   6. PROTECTION
      1. Protect MVE-control system from staining, laitance, and contamination before flooring installation.
      2. Do not allow subsequent testing for flooring installation to compromise MVE-control system.

END OF SECTION