

## **SECTION 09 61 19 - VAPOR EMISSION AND ALKALINITY CONTROL FLOORING TREATMENT**

### **PART 1 - GENERAL**

#### **1.1 SYSTEM REQUIREMENTS**

- A. Design Requirements
  - 1. Test all concrete substrates scheduled to receive moisture sensitive flooring.
  - 2. Provide vapor emission and alkalinity control flooring treatment at all concrete substrates which fail testing criteria indicated in Section 09 00 00 "Finishes" of this guideline.
  - 3. In Section 01 21 00 "Allowances" specify a quantity allowance for the provision of vapor emission and alkalinity control flooring treatment equal to 35 percent of all concrete substrates scheduled to receive moisture sensitive flooring.
  - 4. In Section 01 20 00 "Unit Prices" require that Contractor provide a unit price bid on a per square foot basis for the provision of the specified vapor emission and alkalinity control flooring treatment including floor preparation and installation complete.

### **PART 2 - PRODUCTS**

#### **2.1 MOISTURE-RESISTANT FLOORING TREATMENT**

- A. Products: Subject to compliance with requirements, provide one of the following:
  - 1. Ardex Engineered Cements; ARDEX MC, Moisture Control System.
  - 2. Floor Seal Technology, Inc.; Moisture Reduction System, MES 100.
  - 3. Koester American Corporation; VAP1 2000.
- B. System Description:
  - 1. Two component resinous treatment system, VOC compliant, low viscosity and elastomeric properties to expand and contract with limited slab movement. Formulated to saturate concrete surfaces and mechanically restrict moisture and alkalinity levels.
- C. System Physical Properties: Provide resinous flooring treatment with the following minimum physical properties when tested according to test methods indicated:
  - 1. Water Vapor Transmission: Varies, 94% reduction per ASTM E 96.
  - 2. Alkalinity Resistance: Passes up to a pH of 14 per ASTM D 1308.
  - 3. Adhesion Strength: 500 psi minimum per ASTM D 4541.
  - 4. Relative Humidity Resistance: 100% per ASTM F 2170.
  - 5. VOC: Less than 100 g/L per SCAQMD Rule #1113.

### **PART 3 - EXECUTION**

#### **3.1 INSTALLATION**

- A. Scarify slab surface in area of application by shot blasting or other method acceptable to coating treatment manufacturer.
- B. Apply coating in strict compliance with manufacturer's installation instructions.

**END OF SECTION 09 61 19**