

SECTION 09670  
MULTI COLOR QUARTZ AGGREGATE  
COATINGS FOR FLOORS

REQUIREMENTS OF DIVISION ONE APPLY TO WORK OF THIS SECTION

PART 1: GENERAL

1.01 SCOPE

- A. Work of this section includes everything necessary for or incidental to completing Multi Color Aggregate Floor Coatings work. All Vitrocem Coatings are manufactured by Bithell, Inc., and applied by Bithell, Inc., trained personnel.

1.02 RELATED WORK

- A. Glazed Wall coating Section 09815.
- B. Painting Section 09900.

1.03 SUBMITTAL – SAMPLE REQUIREMENTS

- A. Submit Manufacture's Application Instructions, standard color selections, test reports and samples for approval by the Architect.
- B. Colors: As selected by the Architect. After color selection, submit samples in triplicate, of the material specified, in colors selected. Mark each sample clearly to indicate manufacturer's name and product identification.

1.04 PRODUCT HANDLING

- A. Delivery and storage of materials: Deliver all materials in their original packages with seals unbroken, with manufacturer's name and product identification clearly legible on each package. Store to preclude entry of moisture or damage from any source.

1.05 ENVIRONMENTAL CONDITIONS

- A. Field Conditions: Verify actual field conditions. Inspect related work and adjacent surfaces. Report all conditions which prevent proper execution of this work to the Construction Manager.
- B. Do not apply coatings in damp or rainy weather. Do not apply coating at temperatures below 40 degrees Fahrenheit or above 110 degrees Fahrenheit.

- C. Test on and below grade concrete slabs for moisture vapor transmission using the standard Calcium Chloride Test Procedure. Do not apply coating when moisture migration measures more the 3.0 lbs over a 1000 square foot area during a 24 hour time period.

## 1.06 WARRANTY

Provide a two year written warranty against defects in materials and workmanship.

- A. Warrantee shall begin on date of completion of the project.

## Part 2: PRODUCTS

### 2.01 MANUFACTURER

- A. Vitrocem as manufactured by Bithell, Inc., 1004 East Edna Place, Covina, CA 91724. Telephone 626 331 2292, Fax 626 339 4588, Website – www.vitrocem.com.
- B. Material meeting these requirements produced by manufacturers other than those named, may be substituted provided prior architectural approval is obtained in writing ten (10) days prior to bid date. No substitutions will be allowed without prior approval. The decision of the architect shall be final.
- C. Coating system: Multi Color Quartz Polyester Floor Coating System

### 2.02 MATERIALS

- A. Polyester Floor Coat.
- B. Quartzite Granules.
- C. Clear Glaze.

## Part 3: EXECUTION

### 3.01 SURFACE PREPARATION

Concrete preparation shall include one or both of the following methods:

- A. Mechanical: Shall include the use of scabblers, scarifiers, or shot blast machines for surface removal and etching.
- B. Chemical: Shall include a thorough scrubbing using manufacturer's special purpose detergent and acid etching to remove any laitance and open concrete pores.

### 3.02 MATERIAL PREPARATION

- A. Vitrocem Polyester Coatings require the addition of catalyst just prior to use. Atmospheric conditions affect the curing. Follow manufacturer's printed directions regarding catalyst concentrations at varying temperatures.

### 3.03 APPLICATION

Apply coatings to surfaces in accordance with manufacturer's instructions.

- A. Apply coved base at joint between wall and floor.
- B. Apply the first coat of Vitrocem Polyester Primer by roller at an approximate rate of 100 square feet per gallon.
- C. While the first coat is still wet, broadcast decorative Color Quartz Aggregate in selected color to full coverage over the entire floor.
- D. After a proper cure time, sweep and vacuum excess aggregate from floor.
- E. Apply a base using a contrasting color 6" up the wall from the finish floor line.
- F. Apply a top coat of clear or pigmented Vitrocem Polyester floor coat.
- G. Allow a minimum 48-hour cure time before putting the floor in service for light use. Allow seven days for complete cure.

### 3.04 CLEANING

- A. As the work proceeds, and upon completion, promptly remove coating material where spilled, splashed or splattered.
- B. During progress of work, keep premises free from any unnecessary accumulation of tools, equipment, surplus materials and debris.
- C. Upon completion of work, leave premises neat and clean to the satisfaction of Architect/Engineer.

END OF SECTION