CSI - SECTION 06 26 00 PRE-FINISHED PANELING

Cast Panels - Concrete Effect

PART 1 GENERAL

1.1. SECTION INCLUDES

1. Related Documents: General conditions of contract, general requirements and drawings may be applicable to this section.
2. Solid mineral 3-dimensional pre-cast profile panels and surface finishing materials to achieve a board form concrete look interior wall finish.

1.2. RELATED SECTIONS

1. Section 09 29 00 - Gypsum Board.
2. Section 09 91 23 - Interior Painting.
3. Section 09 21 00 - Gypsum Board Assemblies.
4. Section 09 22 16 - Non-structural metal framing.

1.3. Submittals

Reference Section 01 30 00 - Submittal procedures. Submit the following items:

1. Submit product data sheet, shop drawings and samples under provisions of Section 01 30 00 Submittal procedures.
2. Shop Drawings:
3. Indicate panel layout (Columns or 50% Staggered), color, panel size as per list below, perimeter conditions and junctions with dissimilar materials, thresholds and setting details.

**Note to specifier: DELETE AS APPROPRIATE**

* + 31 ½” X 31 ½” (800mm X 800mm)
  + 47 ¼” X 31 ½” (1200mm X 800mm)

1. Locate and detail expansion and control joints following EJ 171
2. Samples:
3. Submit [\_\_\_\_\_] samples, 12" x 10 1/4" in size, illustrating design profile, color, and texture.

1.4. Quality Assurance

1. Installer Qualifications: Company specializing in performing work of this Section.
2. Single Source Responsibility: Provide only proprietary, factory-formulated products as produced by Armourcoat Surface Finishes specifically for applications indicated. Substitutes with the system are   
   not permitted.

1.5. Mock-up  
Note to specifier: DeletE AS APPROPRIATE

* A mock-up may not be required. Samples and scaled drawings of the areas to be finished should be supplied.
* A site mock-up is required and will not form part of the finished project.
* A site mock-up is required and will form part of the finished project.

1.6. Delivery, Storage, Handling

1. Deliver materials to the project site in their original packaging with manufacturer’s labels identifying manufacturer and product; color designation; lot number; and date of manufacture.
2. Inspect materials upon delivery and immediately report to Armourcoat Surface Finishes, Inc damaged or defective materials. This must be done within 24 hours of acceptance of delivery.
3. Store panels in shipping crates until ready to be installed. Never stack panels against a vertical surface as there is a chance they may warp.
4. Protect panels against damage from moisture, direct sunlight, and surface contamination.
5. Store panels in area of installation for a minimum of 24 hours prior to installation.

1.7. Project, Site Condition

1. Environmental Requirements: Do not install and/or finish Armourcoat’s Custom Panel system when substrate or ambient air temperature is under 45º F (7º C) or over 86º F (30° C) and when the relative humidity conditions are above 70%. Maintain these conditions 24 hours before, during and after installation completion.
2. It is preferable that finished project lighting be installed and fully operational in desired  
   finished state/orientation prior to any finishing work.

1.8. Warranty

1. Provide manufacturer’s standard written warranty.

PART 2 PRODUCTS

2.1. MANUFACTURERS

**Acceptable Manufacturers:**

1. Armourcoat Surface Finishes Inc. 4330 Production Court, Las Vegas,   
Nevada, 89115, USA Tel: 702 644 0601 Fax: 702 644 0554  
Email: sales@usa.armourcoat.com Web: [www.armourcoat.com](http://www.armourcoat.com)

2.Armourcoat Ltd. Morewood Close, London Road, Sevenoaks,   
Kent TH13 2HU, UK Tel: +44 (0)1732 460668. Fax: +44 (0)1732 450930  
Email: sales@armourcoat.co.uk Web: www.armourcoat.com

2.2. Product: CAST PANELS - CONCRETE Effect

1. Design: Concrete Effect
2. Finish: [To match Architect’s approved sample / multiple finishes as indicated on Schedule at end of this Section.]
3. Color: [\_\_\_\_\_\_\_ / multiple colors as indicated on Schedule at end of this Section].
4. Panel sizes:  
   **Note to specifier: DELETE AS APPROPRIATE**

* 31 ½” X 31 ½” (800mm X 800mm)
* 47 ¼” X 31 ½” (1200mm X 800mm)

1. Panel layout:   
   **Note to specifier: DELETE AS APPROPRIATE**

* Columns
* 50% Staggered

1. Substitutions: Not permitted.

2.3. MATERIALS

1. Cast Panels - Concrete Effect
   * + 1. Panel thickness: 3/8"
       2. Panel weights: 2.6 lbs / sq ft
2. Physical Properties

Molded Glass Fiber Reinforced Concrete Effect parts to be cast using FXCP-24 polymer modified alpha grade gypsum blend to meet the following mechanical properties:

1. Flame Spread Classification - Class 1 rating (Fire Spread Index = 0 / Smoke Development   
   Index = 0) - in accordance with ASTM E84 "Standard Test method for Surface Burning Characteristics of Building Materials"
2. Bond Strength - 161 psi - in accordance with ASTM C482-02 "Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement" Result achieve for Timber Effect sample bonded to Fiber Cement panel using Mapei GraniRapid system.
3. Finishing Materials
4. Armourcoat Ecowax
5. Armourcoat EcoPearl Wax
6. Panel Adhesive Manufacturers
7. Acceptable Manufacturers: MAPEI Corporation, Deerfield Beach, FL. (800) 992-6273
8. Acceptable product: MAPEI GraniRapid

PART 3 EXECUTION

3.1. EXAMINATION

1. Verify the suitability of existing conditions before starting work.
2. Verify that final lighting is in place and is fully operational.
3. Acceptable Substrates.
   * + 1. Concrete (cured at least 28 days)
       2. Cementitious tile backer boards (e.g., USG Durock)
4. Acceptable Substrate Tolerances: Verify that substrates are true and level. Substrates shall be constructed to the following tolerances: +/- 0.05 inches in 2 feet and +/- 0.15 inches in 6 feet.
5. Do not begin work of this Section until unsatisfactory conditions have been corrected. Beginning of work constitutes installers acceptance of site and substrate requirements met as put forward in this document.

3.2. PREPARATION

1. Remove hardware, electrical switch and outlet plates, lighting fixtures and other items already in place that are not to receive finish. After completion of work, reinstall items using workers skilled in the trades involved.
2. Protect adjacent surfaces and items that are not to receive finish, but which cannot be removed, from finish work. Use masking materials that will not damage protected items and surfaces.
3. Clean substrates of substances that could impair bond including mold, mildew, oil, grease, salts, contamination, and dirt using methods recommended by manufacturer.

3.3. INSTALLATION

1. Install panels in accordance with Manufacturer’s Installation Instructions.   
   Refer to Armourcoat document : AI-43-023ST14
2. Finish panels, if required, with Armourcoat Ecowax or Armourcoat EcoPearl.
3. For correct usage of adhesive system refer to Mapei guidelines on Granirapid system.
4. Panel Joints:   
   **Note to specifier: DELETE AS APPROPRIATE**

* Butt panels together and fill panel joints with tinted tile grout.
* Leave joints between panels open. Joint detail to be [\_\_\_\_”] wide.

1. Provide finish free of unsightly defects.

3.4. CLEANING AND PROTECTION

1. Remove temporary coverings used to protect adjacent surfaces and reinstall hardware, plates, lighting fixtures and other items previously removed.
2. Clean and repair adjacent surfaces and items soiled or damaged during Work of this Section.
3. Maintain and protect completed/installed Cast Panels until time of acceptance at Substantial Completion. Use protecting coverings which are tape fixed around back side of panel. Do not tape fix to face of panel.