CSI - SECTION 09 91 23

ARCHITECTURAL COATINGS – PERLATA

PART 1 GENERAL

1.1. SECTION INCLUDES

1. Interior decorative specialty coating system for walls, ceilings, and columns.

1.2. RELATED SECTIONS

1. Section 09 21 00 Plaster and Gypsum Board Assemblies.

1.3. REFERENCES

1. ASTM D2486 “Standard Test Method for Scrub Resistance of Wall Paints”.
2. ASTM D1308 “Standard Test Method for the Effect of Household Chemicals on Clear and Pigmented Organic Finishes”.
3. ASTM D3960 “Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings”.
4. ASTM D3273 “Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber”.
5. ASTM D3274 “Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation”.
6. ASTM E84 “Standard Test Method for Surface Burning Characteristics of Building Materials”.

1.4. SYSTEM PERFORMANCE REQUIREMENTS

1. Perlata has been tested for the following properties in accordance with the following test methods:

1. ASTM D2486 – 1925 cycles of wet scrub resistance  
2. ASTM D1308 – high stain resistance to household chemicals  
3. ASTM D3960  
 BaseColor Matt – 51g/lt   
 Perlata – 209g/lt   
 Clearseal Gloss – 209g/lt

4. ASTM D3273 – no mold growth (10 rating as per ASTM D3274)  
5. ASTM E84 – Class A fire rating

1. See Section 01 30 00 Administrative Requirements for submittal procedures.
2. Submittal Templates and required paperwork as follows:  
     
   LEED Credit IEQ, Indoor Environmental Quality. Submit completed LEED information sheets as follows:  
     
   BaseColor Matt  
   USA AQMD Category: Primers, Sealers and Undercoaters  
   VOC Limit Rule 1113 2004 (LEED09) < 200g/lt  
   VOC Limit Rule 1113 2011 (LEED ver 4) < 100g/lt  
     
   Perlata  
   USA AQMD Category: Faux Finish Coatings: Architectural Coatings  
   VOC Limit Rule 1113 2004 (LEED09) < 350g/lt  
   VOC Limit Rule 1113 2011 (LEED ver 4) < 350g/lt  
     
   Clearseal Gloss (if required)  
   USA AQMD Category: Faux Finish Coatings: Clear Topcoat  
   VOC Limit Rule 1113 2004 (LEED09) < 350g/lt  
   VOC Limit Rule 1113 2011 (LEED ver 4) < 350g/lt
3. Product Data: Provide manufacturer’s technical data on products specified, including installation instructions.
4. Shop Drawings: Indicate designs, colors, and locations.
5. Samples: Submit [\_\_\_\_\_] samples illustrating finish color and texture.
6. Qualification Data: Applicator will have reviewed application DVD and application recommendation documents.
7. Warranty: Sample copy of manufacturer's warranty stating obligations, remedies, limitations, and exclusions of warranty.

1.5. QUALITY ASSURANCE

1. Installer Qualifications: Company specializing in performing work of this Section with a minimum of one year documented experience. Include list of at least three completed projects of similar scope with project names and addresses and names and addresses of architects and owners. Installers must have attended Armourcoat training class.
2. Single Source Responsibility: Provide only proprietary, factory-formulated materials as produced by Armourcoat, Ltd. specifically for applications indicated. Substitutes within the system are not permitted.

1.6. MOCK-UP

1. Prior to installing Perlata, construct mock-up of finished surface, [\_\_\_\_\_\_] feet long by [\_\_\_\_\_\_] feet wide, illustrating surface [design,] finish and color.
2. Locate where [directed by Architect / indicated on drawings].
3. Mock-up [may / may not] remain as part of the Work.

1.7. DELIVERY, STORAGE AND HANDLING

1. Deliver materials to the construction 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 Architect damaged or defective materials.
3. All materials must be protected from frost at all times. Store materials in a well-ventilated, dry area with minimum ambient temperature of between 45º F and 95º F (7º C and 35ºC). Prevent deterioration due to moisture, temperature changes, contamination, or other causes.

1.8. PROJECT CONDITIONS

1. Environmental Requirements: Do not apply Perlata when substrate or ambient air temperatures is under 50º F (10ºC) or over 95º F (35ºC).
2. Maintain these conditions 24 hours before, during, and after installation of Perlata.

1.9. WARRANTY

1. See Section 01 78 00 Closeout Submittals for additional warranty requirements.
2. Provide manufacturer’s standard written warranty.

1. Period of Warranty: 1 year.

PART 2 PRODUCTS

2.1. MANUFACTURERS

**Acceptable Manufacturer:**   
  
Armourcoat Ltd.; Morewood Close, London Road, Sevenoaks Kent. TH13 2HU. Tel: +44 (0) 1732 460668. Fax: +44 (0) 1732 450930. E-mail: [sales@armourcoat.co.uk](mailto:sales@armourcoat.co.uk). Web: [www.armourcoat.com](http://www.armourcoat.com).

Substitutions: Not permitted.

2.2. PRODUCTS

1. Products:   
     
   1. BaseColor Matt (Armourcoat Ltd)   
   2. Perlata (Armourcoat Ltd).  
   3. Clearseal Gloss (Armourcoat Ltd) – if required.  
   4. Color: [\_\_\_\_\_\_ / multiple colors as indicated on Schedule at end of this Section].

PART 3 EXECUTION

3.1. EXAMINATION

1. Verify the suitability of existing conditions before starting work. Do not begin Work of this Section until unsatisfactory conditions have been corrected.
2. Acceptable Substrate Tolerances: Verify that substrates are true and level. Substrates shall be constructed to the following tolerances:

1. ± 0.05 inches in 2 feet and ± 0.15 inches in 6 feet.

C There shall be no discernable movement in the substrate when pressure is applied.

3.2. PREPARATION

1. Comply with manufacturer's written instructions for substrate preparation. Recommendation sheets for how to prepare suitable substrates are available at: [**www.usa.armourcoat.com**](http://www.usa.armourcoat.com)**.**
2. Perlata must not bridge changes of substrate material e.g. drywall to blockwork. Different substrate materials must be separated by a movement joint.
3. Remove hardware, electrical switch and outlet plates, lighting fixtures and other items already in place that are not to receive Perlata finish. After completion of work, reinstall items using workers skilled in the trades involved.
4. Protect adjacent surfaces and items that are not to receive Perlata finish, but which cannot be removed, from finish work. Use masking materials that will not damage protected items and surfaces.
5. Clean substrates of substances that could impair bond or cause staining including mold, mildew, oil, grease, salts, marker pen, contamination and dirt using methods recommended by manufacturer. Walls with damp stains must be sealed across the entire wall with a sealer designed for the purpose in accordance with the manufacturer’s recommendations.
6. Substrates must be as smooth and true as though they were going to be painted. Perlata is a thin coating and is not suitable for filling imperfections or flattening walls. Any imperfections in the wall will affect the pattern of the final finish.
7. Substrate: For gypsum board substrates, apply coats of joint compound over joints and fasteners to achieve a minimum of a Level 5 finish. Use ready-mixed or job-mixed, drying-type, all-purpose or topping compound, or proprietary product specifically formulated for joint/skim coating. Touch up and sand as needed to produce a surface free of visual defects, tool marks, or ridges, and conforming to a smooth flat surface. Only apply Perlata to Regular Gypsum Board that is fire resistant and complies with ASTM C 1396. Do not use moisture resistant Gypsum Boards.

3.3. INSTALLATION

1. Prime Coat: Always apply prime coat of BaseColor Matt and allow to dry.
2. Finish: Apply 2 coats of Perlata as recommended by manufacturer to achieve agreed decorative result. Allow to dry.
3. Sealer – if required: Apply Armourcoat Clearseal Gloss and allow to dry.
4. Provide finish free of unsightly variations in texture and other 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 Perlata surfaces until time of acceptance at Substantial Completion.

3.5. SCHEDULE

1. Perlata Style A:

1. Location: [\_\_\_\_\_\_/ As indicated on drawings].  
2. Design: [\_\_\_\_\_\_].  
3. Finish: [\_\_\_\_\_\_].  
4. Color: [\_\_\_\_\_\_].

1. Perlata Style B:

1. Location: [\_\_\_\_\_\_/ As indicated on drawings].  
2. Design: [\_\_\_\_\_].  
3. Finish: [\_\_\_\_\_].  
4. Color: [\_\_\_\_\_]..