

Part 1 General

1.1 SECTION INCLUDES

- .1 Interior decorative polished plaster finish system for installation over walls and ceilings.

1.2 RELATED SECTIONS

- .1 Section 09 29 00 – Gypsum Board Assemblies

1.3 REFERENCES

- .1 ASTM D 1308 - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes; 1998.
- .2 ASTM D 2486 - Standard Test Method for Scrub Resistance of Wall Paints; 1996.
- .3 ASTM D 3363 - Standard Test Method for Film Hardness by Pencil Test; 1992a.
- .4 ASTM E 84 - Standard Test method for Surface Burning Characteristics of Building Materials; 1999.
- .5 ASTM D 3273 – Standard Test Method for Resistance to the Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
- .6 ASTM D 3274 – Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation.
- .7 ASTM D 3960 – Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings.

1.4 SYSTEM PERFORMANCE REQUIREMENTS

- .1 Polished plaster P01, P20, P30 or P66 shall be tested by a qualified independent testing agency for the following properties according to the following test methods:
 - .1 Compressive strength: 8,000 PSI
 - .2 Scrub Resistance: Minimum 10,000 cycles using 10 grams of scrubbing medium and 5 grams of water applied by brush.
 - .3 Chemical Exposure: Passes ASTM D 1308.
 - .4 Mold Resistance – Minimum rating of 10 when tested according to ASTM D 3273 and D 3274.
 - .5 VOC content – Top coat plaster to have 0g/lit (0lbs/gal) when tested according to ASTM D3960.

1.5 SUBMITTALS

- .1 See Section 01 33 00 – Submittal Procedures.
- .2 Product Data: Provide manufacturer's technical data on products specified, including installation instructions.
- .3 Shop Drawings: Indicate designs, colors, and locations.
- .4 Samples: Submit samples, 12 x 12 inches in size, illustrating finish color and texture.
- .5 Qualification Data: Certificate issued by distributor indicating that installer has attended training class and is authorized to install specified product.
- .6 Warranty: Sample copy of manufacturer's warranty stating obligations, remedies, limitations, and exclusions of warranty.

1.6 QUALITY ASSURANCE

- .1 Installer Qualifications: Company specializing in performing Work of this Section with a minimum of five years documented experience. Include list of at least three completed projects of similar scope with project names and addresses and details of ownership and

- professionals involved.
- .2 Fire-Test-Response Characteristics: Provide finished system with the following surface-burning characteristics as determined per ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
 - .1 Flame Spread: 10 or less.
 - .2 Smoke Contribution: 10 or less.
- 1.7 MOCK-UP
 - .1 Prior to installing polished plaster, construct mock-up of finished surface, 4 feet long by 1 foot wide, illustrating surface finish and color.
 - .2 Locate where as indicated on Drawings, or as per Contract Administrator's directions.
 - .3 Mock-up may remain as part of the Work if deemed acceptable by Contract Administrator.
- 1.8 DELIVERY, STORAGE AND HANDLING
 - .1 Deliver
- 1.9 PROJECT CONDITIONS
 - .1 Environmental Requirements: Do not apply polished plaster when substrate or ambient air temperatures is under 7° C or over 35°C.
 - .2 Maintain these conditions 24 hours before, during and after installation of polished plaster.
- 1.10 WARRANTY
 - .1 See Section 01 78 00 – Closeout Submittals, for additional warranty requirements.
 - .2 Provide manufacturer's standard written warranty.
 - .1 Period of Warranty: 10 years.

Part 2 Products

- 2.1 MANUFACTURERS
 - .1 Acceptable Manufacturers:
 - .1 Armourcoat Surface Finishes, 4330 Production Court, Las Vegas, Nevada 89115, USA Tel: 702 644 0606. Fax: 702 644 0554. E-mail: sales@usa.armourcoat.com.
 - .2 Substitutions for equal in accordance with B7.
- 2.2 PRODUCTS
 - .1 Products: Armourcoat Polished Plaster, Armourcoat Ltd.
 - .2 Finish: Smooth
 - .3 Color: Custom colour to be specified by Contract Administrator.
- 2.3 MATERIALS
 - .1 Polished Plaster System: Provide manufacturer's complete system of proprietary materials specifically formulated for compatibility with one another including:
 - .1 K40 Primer
 - K149 Keycoat
 - P01/P20/P30/P66 Polished Plaster
 - Colourant
 - .2 Water: Clean, fresh, potable and free of mineral or organic matter which can affect plaster.

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 If depth of exposed Material is greater than 1/2" use blocking and face with gypsum board.
- .3 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.

3.2 PREPARATION

- .1 Comply with manufacturer's written instructions for substrate preparation.
- .2 Remove hardware, electrical switch and outlet plates, lighting fixtures and other items already in place that are not to receive plaster finish.
 - .1 After completion of Work, reinstall items using workers skilled in the trades involved.
- .3 Protect adjacent surfaces and items that are not to receive plaster finish, but which cannot be removed, from finish Work. Use masking Materials that will not damage protected items and surfaces.
- .4 Clean substrates of substances that could impair bond including mold, mildew, oil, grease, salts, contamination and dirt using methods recommended by manufacturer.
- .5 Substrate: For existing masonry substrate, ensure the masonry units at cut opening are returned for flush surface. Remove any excess dust and dirt from the wall with brush.
- .6 Substrate: For gypsum board substrates, apply coats of joint compound over joints and fasteners to achieve a minimum of a Level 4 finish. Use ready-mixed or job-mixed, drying-type, all-purpose or topping compound, or proprietary product specifically formulated for joint 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. Apply Polished Plaster to Regular Gypsum Board that is fire resistant and complies with ASTM C 1396.
- .7 Prepare all Materials in accordance with manufacturer's recommendations.

3.3 INSTALLATION

- .1 Mix and apply plaster in accordance with manufacturer's instructions to obtain designed strength and consistency.
- .2 Add colourant according to manufacturer's recommendation.
- .3 Coats to be applied on one application for uniform texture and consistency.
- .4 Use clean steel trowel.
- .5 Prime coat: Apply K40 primer coat and allow to dry.
- .6 Keycoat: Mix and apply K149 Keycoat in accordance with manufacturer's instructions. Allow to dry
- .7 Feather plaster to edge of surface for clean and crisp edge.
- .8 Finish: Apply finish coats as recommended by manufacturer to achieve desired results. Number of coats and total dry mil thickness shall be as recommended by manufacturer for specific system. Allow to dry.
- .9 Wax: Apply Ecowax to obtain desired sheen in accordance with manufacturer's instructions.
- .10 Provide finish free of unsightly variations in texture and other defects.
- .11 For final finished surface Work the plaster with a clean finishing trowel to remove all trowel marks and blemishes for a smooth shine and burnished effect.

- .12 Coordinate with Contract Administrator level of gloss desired.
- 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 polished plaster surfaces until time of acceptance at Substantial Performance.

END OF SECTION