

SECTION - 09 24 00

PIAZZA PLASTER

EDITING INSTRUCTIONS:

1. DELETE SPECIFIER NOTES AND DIRECTIONS (IN ALL CAPS, BOLD PRINT, AND CENTERED IN PAGE) FROM FINAL TEXT.
2. WHERE DOUBLE ** OCCUR IN TEXT, SELECT THE APPROPRIATE OPTIONS AND DELETE ASTERISKS AND UNSELECTED OPTIONS FROM FINAL TEXT.
3. FINAL TEXT SHALL THEN BE FREE OF SPECIFIER NOTES AND DIRECTIONS, ASTERISKS, AND INAPPROPRIATE OPTIONS.

PART ONE – GENERAL

1.1 SUMMARY:

EDIT PER PROJECT REQUIREMENTS.

- A. Work of this section includes manufacture, transport, erection, and cleaning of Piazza Plaster finish system.
- B. Related work specified elsewhere:
 1. Concrete.
 2. Concrete unit masonry.
 3. Lightweight cast stone.
 4. Stucco.
- C. Definitions:
 1. Lath: Refer to ASTM C 841-81: Installation of Interior Lathing and Furring.
 2. Scratch & Brown: Refer to ASTM C 926-81: Application of Portland Cement-Based Plaster.
 3. Bonding Agent: Synonymous with primer coat.
 4. Finish Coat: Final decorative finish layer.

1.2 REFERENCES:

- A. ASTM International (ASTM):
 1. D 4258-05: Practice for Surface Cleaning Concrete for Coating.
 2. D 4259-88 (1999): Practice for Abrading Concrete.
 3. D 4260-05: Practice for Liquid and Gelled Acid Etching of Concrete.

1.3 SYSTEM DESCRIPTION:

- A. Design Requirements:
 1. Deflection criteria: Maximum deflection of **wall**and**ceiling** substrates to receive Piazza Plaster shall be minimum L/360.

RETAIN BELOW FOR PROJECTS IN FLORIDA.

2. Piazza Plaster shall be approved by Florida Building Commission for state wide use.

RETAIN BELOW FOR PROJECTS IN HIGH VELOCITY WIND ZONES.

3. Piazza Plaster shall resist large and small missile impact damage as required by the latest edition of applicable Building Code.

4. ****Fire ratings: Comply with fire-rated assemblies **as indicated on drawings** and building code requirements. Use only manufacturers and types of materials as required by indicated designs.****

B. Performance Requirements: Contact manufacturer for latest performance criteria.

1.4 SUBMITTALS:

A. Certification: Submit manufacturer's certification that materials meet specified requirements.

RETAIN FOR ITEMS SPECIFIED BY REFERENCE STANDARDS OR PROPRIETARY ITEMS.

B. Product Data: Submit product data covering components, mixing, and application of factory-prepared finish plaster materials.

C. Shop Drawings: Indicate fabrication and installation, including applicable plans, elevations, sections, details of components, control and expansion joint locations and attachments to substrates.

D. Samples: Submit 1'-0" square samples prepared on rigid backing of each texture and color selected by Architect for Architect's approval. Samples shall reflect range of aesthetic effects including textures, colors, and workmanship that is to be expected in the finished work.

1.5 QUALITY ASSURANCE:

A. Qualifications:

1. Manufacturer:

a. Manufacturer shall have sufficient plant facilities to produce the quantities and sizes of Piazza Plaster required in accord with project schedule.

b. Manufacturer shall submit a written list of completed projects similar in scope and at least three (3) years of age, along with Owner, Architect, and Contractor references.

2. Artisan shall be trained by Piazza Stone, LLC in the application of specified Piazza Plaster systems.

B. Leave weight tags on metal and wire lath until approved by building official.

C. Mock-ups: Construct minimum 4'-0" by 4'-0" by full thickness sample panels, indicating color, texture, and workmanship of each texture and color required.

1. Construct mock-ups in locations as directed by Architect.

2. Mock-ups shall match approved samples in Architect's office and shall reflect a range of aesthetic effects including textures, colors, and workmanship that is to be expected in the finished work.

3. Do not proceed with work until panel has been approved by Architect.

4. Maintain approved sample panel on project site as a standard for Piazza Plaster work.

5. ****Remove panel at completion of project.**** ****Leave approved panel installed as part of completed project.****

D. Pre-installation meeting: Two weeks prior to beginning Piazza Plaster work, conduct an on-site meeting to review the Piazza Plaster application.

1. Contractor, Architect, Piazza Plaster Artisan, and installers of related materials and products shall be in attendance.

2. Contractor shall record minutes of the meeting and distribute minutes to affected parties.

1.6 DELIVERY, STORAGE AND HANDLING:

- A. Delivery: Deliver products to job site in original containers with brand-name and manufacturer's identification labels intact and legible.
- B. Storage:
 - 1. Store materials under cover and off ground to protect from damage.
 - 2. Do not place materials in contact with earth.

1.7 PROJECT / SITE CONDITIONS:

- A. Environmental requirements:
 - 1. Cold weather conditions:
 - a. Do not apply Piazza Plaster unless minimum ambient temperature of 40° F has been, and continues to be maintained for a minimum of 48 hours prior to application and until Piazza Plaster is cured.
 - b. When ambient temperature is less than 40°F, heat sand and mixing water to a minimum of 70° F. Provide temporary protection and heat to a minimum of 40° F in application areas for a minimum of 48 hours prior to application, and until Piazza Plaster is cured.
 - c. When artificial heat is used, locate heaters to prevent a concentration of heat on uncured Piazza Plaster. Vent heaters to the exterior to prevent toxic fumes and other products of combustion from adhering to or penetrating the Piazza Plaster base and finish coats.
 - 2. Protect Piazza Plaster from uneven and excessive evaporation during hot, dry, windy weather.
- B. Protection: Protect pre-finished surfaces and areas finished prior to Piazza Plaster installation by covering with plastic sheets or non-staining kraft paper. Keep covering in place until completion of work.

1.8 WARRANTY:

- A. Manufacturer shall provide a material and water tightness warranty for Piazza Plaster finish system against defects in materials and against bond loss, peeling, flaking, chipping, fading, discoloration, and loss of water resistance. Warranty shall cover replacement costs, including materials and labor, due to failure of the system without additional costs to the Owner.
- B. Warranty period shall be for five years beginning at the Date of Substantial Completion.

PART TWO – PRODUCTS

2.1 FACTORY-PREPARED FINISH COAT PRODUCTS:

- A. Acceptable product: Piazza Stoneworks™, Piazza Stone, LLC
Augusta, GA; 706-651-1210
www.piazzastone.com
- B. Characteristics:
 - 1. Material: Proprietary blend of Portland cement and additives.
 - 2. Base coat: Piazza Base.
 - 3. Decorative finish coat: Piazza Finish: _____.
 - a. Texture: Custom texture as selected by the Architect.
 - b. Color: ****Standard color as selected by Architect**** ****Custom color selected by Architect, which will require an up charge.****

2.2 ACCESSORIES:

- A. Bond coat: Bonding agent equal to Weld-Crete
- B. Sealant: Acceptable Product: BASF Building Products, Sonolastic NP-1 or equal.
- C. Plaster enhancer/sealer: Clear or translucent water repellent as recommended by Piazza Plaster manufacturer's product data.
- D. Pigments: As recommended by Piazza Plaster manufacturer's product data.
- E. ****Lightweight cast stone: As specified in Lightweight Cast Stone section.****

2.3 MIXING:

- A. General:
 - 1. Measure ingredients, including water, by use of scales measuring in pounds. Do not use shovels or water buckets as measuring devices. Proportion successive batches alike.
 - 2. Mix materials for a minimum of two minutes or until ingredients present uniform color in mixer. Use a minimum amount of water required to produce Piazza Plaster of workable consistency.
 - 3. Use mechanical mixing equipment; however, smaller applications requiring less than one bag of plastering material may be hand mixed.
- B. Finish coat mixes:
 - 1. Mix factory-prepared Piazza base and finish coat materials with water in accord with manufacturer's product data. Do not add any additives, cementitious materials, or aggregate unless specifically required by manufacturer's product data.
 - 2. Proportion ingredients to achieve uniform color and texture and to achieve match to approved sample panels and mock-up panels.

PART THREE – EXECUTION

3.1 EXAMINATION:

- A. Verify that surfaces and site conditions are ready to receive Piazza Plaster work.

3.2 PREPARATION OF SURFACES:

- A. Clean bases to receive Piazza Plaster and remove substances and obstructions which might impair satisfactory Piazza Plaster work.
- B. Clean concrete and masonry in one of the following methods to remove oil, wax, grease, sealants, efflorescence, and other foreign matter:
 - 1. Pressure cleaning: Comply with ASTM D 4258 using a turbo nozzle capable of removing all foreign matter. Monitor nozzle to assure that no 980 degree pressure cleaning occurs to prevent direct absorption of water into masonry substrate.
 - 2. Sandblasting: Comply with ASTM D 4259.
 - 3. Acid-etching: Comply with ASTM D 4260.
 - 4. Scarify by hammer, chipping, and roughing.
- C. Substrate deviations more than 1/8" in 10'-0" from a true plane when a 10'-0" straight edge is placed at any location on the substrate shall be corrected prior to starting Piazza Plaster work.

- D. Provide temporary screeds to ensure uniform thicknesses, flat surfaces and accurate contours and profiles.
- E. Bonding agent: Apply Piazza Primer to concrete and masonry surfaces indicated to receive Piazza Plaster in accord with manufacturer's product data.

3.3 PLASTER INSTALLATION:

A. Finish coat installation:

- 1. Apply Piazza Base in thickness equal to aggregate thickness.
- 2. Apply Piazza Finish in number of coats and of consistency required to achieve color and texture of approved mock-up. Apply additional coats, prior to curing of first coat, in accord with Piazza Plaster manufacturer's product data.
- 3. ****Apply Piazza Enhancer/Sealer in accord with Piazza Plaster manufacturer's product data.****

B. Control joints:

- 1. Install in locations indicated and in accord with the following:
 - a. Maximum panel size:
 - i) 100 sq. ft. maximum area for horizontal applications.
 - ii) 144 sq. ft. maximum area for vertical applications.
 - iii) Distance between control joints shall be ****as indicated on drawings****, not to exceed 18'-0" maximum in either direction, with a length-to-width ratio of 2-1/2 to 1 maximum.
 - b. Coordinate location of substrate joints with the location of control joints in the Piazza Plaster system to ensure that joints line up.
- 2. On vertical and sloped planes, vertical control joints shall be continuous, horizontal control joints shall be discontinuous, butting to vertical control joints.
- 3. Align joints in horizontal and vertical planes.

C. Seal exposed joints in accessories including splices, intersections, and terminations of control joint accessories using specified sealant.

D. Site tolerances: Maximum deviation from true plane of 1/8" in 12'-0", as measured by straight edge placed at any location on surface.

3.4 MOISTURE RETENTION AND CURING:

- A. Dampen Piazza Plaster coats which have dried out prior to time for applications of next coat, for uniform suction.
- B. Determine most effective procedure for curing and time lapse between application of coats, based on climatic and project conditions. Plaster which is cracked or crazed due to improper timing and curing will not be accepted. Remove and replace defective finish plaster, including base materials, if damaged during removal of defective finish plaster.

3.5 SITE TOLERANCES:

- A. Finish thickness: Standard finish coat for Piazza Plaster shall not be less than 1/4" at any point along the surface.

3.6 CUTTING AND PATCHING:

- A. Cut, patch, repair, and point-up Piazza Plaster as necessary to accommodate adjacent work. Repair cracks and intended surfaces by moistening Piazza Plaster and filling with new Piazza Plaster, troweled or tamped flush with adjoining surfaces. Point-up finish surfaces around items which are built into or penetrate Piazza Plaster surfaces.
- B. Patched and repaired areas shall not be distinguishable in the finished work.

3.7 CLEANING AND PROTECTION:

- A. Provide temporary covering to minimize spattering of Piazza Plaster on adjacent work.
- B. Remove Piazza Plaster materials from door frames, windows, and other surfaces which are not to be plastered. Repair floors, walls, and other surfaces stained, marred, or otherwise damaged.
- C. Remove protective tape from control joint accessories after application of Piazza Plaster decorative finish coat.

End of Section