

**GrayStone Unicoat Fiber Reinforced Stucco (FRS)  
with ArcusStone Finish and Fabricated Cast Shapes**

Section 1 – General

- 1.1 RELATED ITEMS
  - A. Provisions within the General and Supplementary Conditions of the Contract and drawings.
- 1.2 QUALITY
  - A. Applicator: Minimum 5 years documented experience in cement plasterwork, or GrayStone of Florida, Inc. approved.
  - B. Stucco application in accordance with manufacturer's recommendations and/or as specified on plans.
  - C. Finished Stucco shall be of good quality and finish. Edges of planes shall be sharp and accurate. Finished surfaces shall be uniform in texture and free from objectionable imperfections.
- 1.3 SUBMITTALS – FRS/SBCCI 9915B
  - A. Provide product data on plaster materials, characteristics and limitations of product as specified. (Reference attached SBCCI 9915B report)
  - B. Submit manufacturer's installation instructions.
- 1.4 SAMPLES
  - A. Provide sample panel at jobsite.
  - B. Construct sample as directed by Job authority.
  - C. Accepted sample shall remain as part of the job.
  - D. Sample texture(s) on sample panel should be used to judge entire installation for consistency.
- 1.5 JOB SITE CONDITIONS
  - A. Do not apply stucco when air temperature in less than 35 degrees Fahrenheit.
  - B. Work should be stopped a minimum of six hours before freezing conditions.
  - C. Protect stucco from uneven and excessive evaporation during hot, dry weather by moist curing.
- 1.6 COORDINATION
  - A. All items penetrating through substrates must be caulked or taped before lath is installed.
  - B. Openings and chases for heating, plumbing and electrical, ducts, pipes and conduits shall be built into the stucco work.
  - C. Verify other trades have completed their exterior work to avoid cutting and patching.

- D. Finished surfaces abutting stucco should be installed.
- E. Windows and doors should be installed, flashed and taped as necessary.
- F. Roof should be complete.
- G. Drywall hanging complete on all levels of building.
- H. Plywood and OSB substrates should be inspected for proper spacing between butt joints to allow for expansion from moisture. Minimum 1/8 inch.

## Section 2 – Product

### 2.1 MANUFACTURE OF PLASTER MATERIALS

- A. GrayStone of Florida, Inc., 215 Pineda Street, Unit 153, Longwood, Florida 32750, Phone (407) 767-5455.
- B. Exclusive Distributor – Circle Supply of Atlanta, 4212 NE Expressway, Atlanta, Georgia 30340, Phone (800) 226-0691, Contact – Kiernan Dowell.
- C. Mix only as much plaster as can be used prior to initial set.
- D. 200-240 pounds or a maximum of 2 ½ cubic feet of ASTM C-144 plaster sand.
- E. Use potable water (4-7 gallons) for a spray able or trowel able working mix.
- F. Do not use material that has partially set.
- G. Do not use frozen, caked, or lumpy materials.
- H. Mixer and mud boxes shall be cleaned of set or hardened materials before newly mixed stucco is loaded.
- I. Protect stucco mix from contamination.
- J. Cure stucco by fogging to reduce excess evaporation.

### 2.2 SUBSTRATES

- A. Acceptable substrates for the GrayStone Unicoat (FRS) Fiber Reinforced Stucco Systems include but are not limited to:
  - 1. Exterior grade gypsum sheathing (ASTM C-79-95)
  - 2. Oriented Strand Board (US DOC PS 2-95)
  - 3. Plywood (US DOC PS 1-95)
  - 4. Fiberboard (ANSI/AHA A 194-85)
  - 5. Dens-Glass Gold sheathing
  - 6. Expanded Polystyrene (ASTM C-578) with nominal density 1.5 PCF
  - 7. Extruded Polystyrene
  - 8. Foam Plastics
  - 9. Other Substrates to be approved by GrayStone prior to installation
  - 10. Concrete Masonry Units, free of bond breaker and wetted before Stucco is applied

### 2.3.1 WEATHER RESISTIVE MEMBRANE

- A. Grade D building paper complying with Federal specification UUB 790a or asphalt saturated rag felt complying UL standard No. 55-A.
- B. One or two layers as required by appropriate building code. SBCCI requires one.
- C. Maybe an integral part of the lath or stucco wraps.
- D. Lath may be installed directly over stucco wrap.

### 2.4 LATH

- A. Metal lath – Supplied by Dale/Incor or equal.
- B. Metal lath shall comply with ASTM C 847-93; furring and self-furring requirements shall be as set forth for wire-fabric lath. Minimum weight is 1.75 pound per square yard. (Maximum coating thickness is ½")
- C. 20 gauge 1" galvanized steel woven wire fabric. (Maximum coating thickness is ½")
- D. Other laths – welded comply with ASTM C933-80 or woven ASTM C 1032-86. (Maximum coating thickness is ½")

### 2.5 TRIM

- A. Trim – Supplied by Dale/Incor or equal.
- B. All casing beads, corners, and control joints shall be installed in accordance with drawings and detail items. All trim to be approved/specified by architect or owner.
- C. General rule is panel size not to exceed 144 square feet.
- D. All window and door corners should be reinforced.

### 2.6 FABRICATED CAST SHAPES

- A. A lightweight limestone part that has encapsulated an expanded polystyrene board (EPS) foam core shape, to be applied over an approved substrate.
- B. Application - Using a stainless steel trowel, install a ribbon of Adhesive mixture, 51 mm (2") wide by 10 mm (3/4") thick around the entire perimeter of the shape. Place eight dabs of Adhesive mixture 10 mm (3/4") thick by 102 mm (4") in diameter approximately 204 mm (8") on center to the interior area. Alternatively, a notch trowel may be used to install a continuous coat of the Adhesive mixture on the entire back of the shape. The beads shall stand out 10 mm (3/4") from the surface of the shape. The 51 mm (2") wide by 10 mm (3/4") thick ribbon must be installed around the entire perimeter of the shape. CAUTION: Do not install Adhesive on the substrate using the notch trowel. Immediately place the shape on the substrate and slide into position. Do not allow the Adhesive mixture to form a skin before positioning the insulation board on the substrate.
- C. Drying Time - When bonding shape to an approved substrate, a period of 24 hours must elapse to allow the Adhesive to form a positive bond. The shape should not be worked on while the Adhesive is curing.

Drying of the Adhesive is dependent on the air temperature and relative humidity. Under average drying conditions [21 °C (70 °F), 55% R.H.] protect work from rain for at least 24 hours.

## 2.7 CONTROL JOINTS

- A. Control Joints – Supplied by Dale/Incor or equal.
- B. Control joints installed as per plans or as specified by building authority.
- C. Control joints are applied over continuous metal lath with no break in lath.
- D. Control joints are generally used in conjunction with other trim to define panel size.

## 2.8 EXPANSION JOINTS

- A. Expansion Joints – Supplied by Dale/Incor or equal.
- B. Expansion joints installed as per plans or as specified by building authority.
- C. Expansion joints are installed over break in building substrate.
- D. Metal lath or stucco netting will terminate at Expansion joint edges.
- E. Expansion joints are spanned by expansion trim attached over metal lath.

## Section 3 – Installation

### 3.1 BEFORE STARTING WORK

- A. Verify that surfaces and site conditions are ready for work.
- B. Check furring, lath, and control/expansion joints are completed and secured properly.
- C. Masonry: Joints are cut flush and surface is clean. No foreign material or contaminants are present on masonry surface where stucco is to be applied.
- D. Check that penetrations through lath or masonry wall are caulked or otherwise sealed before stucco.

### 3.2 APPLICATION – GENERAL

- A. Apply plaster in concordance with manufacturer's instructions. Hand trowel or pumped. (Paragraph 2.1)
- B. Stop plaster only at corner bead corners or control/expansion joints.
- C. Layout to permit completion of an entire surface in one application.
- D. Maintain a wet edge. Work from corner to corner or edge to edge to prevent cold joints.
- E. Basecoat
  - 1. Thickness of base coat: Minimum 3/8" to 1/2" maximum in one coat application.
  - 2. Moist cure by fogging two (2) times daily for two (2) days to

insure total cement hydration. (Mandatory for maximum strength and minimum cracking)

3. Allow to cure four to six days before applying coating or consult manufacturer of coating for recommendations. PH should be tested.
- F. Available Finishes: ArcusStone Products, Inc. See CS 210 for Color-Texture Samples.
1. [ArcusStone Coat] [And] [ArcusStone Plaster] finish materials, including basic finish, accent coloring, grouting, accessory products, and sealers shall be as manufactured or recommended by ARCUSSTONE PRODUCTS, INC.
  2. Basic finish shall be a polymer-modified cement plaster with integral color composed of Portland cement, natural minerals, special additives and proprietary ingredients. It shall be non-combustible, with a minimum compressive strength of 4650 PSI at 3/8" thickness after 28 days.
  3. ArcusStone Coat and ArcusStone Plaster materials, (cementitious), must be used in their pure form without any additional additives, other than color pigments, unless approved by the manufacturer.
  4. ArcusStone Coat color and texture shall be selected from Standard ArcusStone color chart. Color-Texture and Coursing patterns shall be indicated on prints.
  5. ArcusStone Coat Finish (3/8" Thickness) Textures:
    - a. Chateau Polished
    - b. Chateau Stone
    - c. Dune
    - d. Tuscan
    - e. Sandstone
    - f. Weathered
  6. ArcusStone Plaster Finish (3/16" Thickness) Textures
    - a. Sanded
    - b. Dune
    - c. Tuscan
    - d. Skip Trowel
  7. ArcusStone Plaster color and texture shall be \_\_\_\_\_ and \_\_\_\_\_, respectively. Patterns shall be \_\_\_\_\_ as indicated on prints. Present 8.5"x11" Color/Texture samples for final approval by architect/owner.
  8. Grouts used in [ArcusStone] finish [es] shall be Weatherall 1010 Chinking® grout with integral color \_\_\_\_\_, or approved equal. Refer to CS205 Installation and Maintenance Guide.
  9. Sealers with water repelling properties used over ArcusStone Finishes should be used in cold climates. Refer to CS205 Installation and Maintenance Guide.

### 3.3 PATCHING

A. Patching defects in workmanship and materials. Patches in finished areas shall match adjacent surfaces. All areas to be worked must be clean and free of contaminates.

1) Repair/patch cured un-coated stucco

Mix stucco as per instructions on bag, add bonding agent to the mix (1 cup of bonding agent to a 5 gallon pail of stucco). An alternative is to apply bonding agent directly to the stucco surface by brush, roller, or spray.

2) Repair/patch cured coated stucco

Mix stucco as per instructions on bag, add bonding agent to the mix (1 cup of bonding agent to a 5 gallon pail of stucco). An alternative is to apply bonding agent directly to the stucco surface. The coated surface should be scored with a wire brush or rubbing stone. Cement stucco will not adhere to elastomerics.

3) Retexture coated or un-coated stucco

Mix stucco for texturing as per instructions on bag, add bonding agent to the mix (1 cup of bonding agent to a 5 gallon pail of stucco). An alternative is to apply bonding agent directly to the stucco surface.

### 3.4 CLEANING

A. Removing plaster and protective materials from control beads and metal accessories. Remove plaster splatters and debris from other surfaces. Remove rubbish, debris and scaffolds from completed area.