

## SECTION 09 26 13

### GYPSUM VENEER PLASTER

#### PART 1 - GENERAL

##### 1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing as indicated:

1. Two-coat gypsum veneer plaster over veneer base board.

B. Related Sections:

1. Gypsum board is specified in Section 09 29 00.
2. Painting is specified in Section 09 91 00.

##### 1.02 SUBMITTALS

A. General: Comply with Section 01 33 00.

B. Product Data: Manufacturer's product specifications and installation instructions for each component of veneer plaster systems, including other data as required to show compliance with specifications.

##### 1.03 QUALITY ASSURANCE

A. Applicator shall be an established firm regularly providing work of types required for not less than 3-years.

B. Fire-Resistive Ratings: Where veneer plaster systems with fire-resistance ratings are required, provide materials and installations which are identical with those of applicable assemblies tested in accordance with ASTM E119 by fire testing laboratories acceptable to authorities having jurisdiction.

C. Finish Tolerance: When measured using a 10-foot straightedge level placed at any position on the surface, variations in finished flat surfaces shall not exceed 1/8-inch.

##### 1.04 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in original packages, containers or bundles bearing brand name and identification of manufacturer or supplier.

B. Store materials inside under cover; keep dry and protect from the weather, direct sunlight, surface contamination, corrosion and damage, and construction traffic. Neatly stack boards flat to prevent sagging.

C. Handle boards to prevent damage to edges, ends or surfaces.

##### 1.05 PROJECT CONDITIONS

A. Environmental Requirements:

1. Cold Weather Protection: Maintain continuous, uniform, building working temperatures of not less than 55-degrees F. for a minimum period of one-week prior to, during, and after veneer plastering.
2. Ventilation: Ventilate building spaces as required to remove water in excess of that required for hydration of veneer plaster.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

- A. Gypsum Base: ASTM C588, Type X; 5/8-inch thick; square edges and ends; USG Interiors "Imperial Gypsum Base Firecode" or "Imperial Gypsum Base Firecode C" or approved equal.
- B. Fasteners: Screws, ASTM C1002, corrosion-resistant treated.
- C. Joint Reinforcing Strip: Glass fiber type; USG Interiors "Imperial" Tape, Type S or approved equal.
- D. Reinforcing Staples: Flattened galvanized wire with legs of sufficient length to hold reinforcing in place.
- E. Accessories and Trim:
  - 1. Edge Trim: USG Interiors No. 801-A/801-B or approved equal.
  - 2. Corner Beads: USG Interiors No. 900 or approved equal.
  - 3. Control Joints: USG Interiors No. 093 or approved equal.
- F. Veneer Plaster: ASTM C587.
  - 1. Base Coat Plaster: USG Interiors "Imperial Basecoat" or approved equal.
  - 2. Finish Coat: USG Interiors "Imperial" Finish Plaster or approved equal, minimum 3,000-psi compressive strength in accordance with ASTM C472.
- G. Water: Clean, fresh, of potable quality.

### 2.02 MIXING

- A. Mix using water quantities in accordance with manufacturer's instructions.
- B. Mix using mechanical mixers recommended by manufacturer. Do not mix more material than can be applied before material sets.
- C. Do not re-temper or use partially set plaster.
- D. Do not use caked or lumpy material.
- E. Mix each batch separately and clean mixers after each batch.

## PART 3 - EXECUTION

### 3.01 PREPARATION

- A. Clean surfaces of dust and loose material.
- B. Remove projections greater than 1/8-inch and fill depressions greater than 1/4-inch with portland cement mortar.

### 3.02 GYPSUM BASE

- A. Install gypsum base in accordance with ASTM C844. Secure to metal framing with screws.
- B. Locate exposed end-butt joints as far from center of walls and ceilings as possible and stagger not less than 12-inches in alternate courses.

- C. Install ceiling boards in direction and manner which will minimize number of end butt joints and which will avoid end joints in central area of ceiling.
- D. Butt boards together for a light contact of edges and ends with not more than 1/16-inch open space between boards. Do not force into place.
- E. Isolate edges of gypsum veneer base from abutment with structure except at floors. Provide 1/4- to 1/2-inch space for trim and sealant.
- F. Space fasteners in accordance with manufacturer's instructions and as required for fire-ratings.
- G. Single-Layer Installation:
  - 1. Apply gypsum base to ceilings prior to application on walls and partitions.
  - 2. Install gypsum base on walls and partitions with ends and edges over framing members or solid backing except at treated joints occurring at right angles to framing. Install parallel or perpendicular to framing as specified in ASTM C844, Table 1 and as required for fire-ratings. Stagger end joints and locate joints on opposite sides of partition on different framing members.
- H. Double-Layer Installation:
  - 1. On ceilings, apply first layer prior to application on walls and partitions. Apply second layer in same sequence. Offset joints between layers at least 10-inches. Apply first layer perpendicular to supports.
  - 2. On walls, install first layer parallel or perpendicular to framing as specified in ASTM C844, Table 1 and as required for fire-ratings. Install second layer parallel or perpendicular to first layer as required for fire-ratings. Face layer joints that are parallel to the framing shall fall over the framing when two plies of gypsum base are parallel.
- I. Acoustical Control Requirements for Sound Partitions: Comply with ASTM C919, and as specified.
  - 1. Seal airtight with acoustical sealant materials specified in Section 07 92 19.
  - 2. Seal penetrations through walls, or cuts in one face of walls, with a full bead of sealant at perimeter; this includes provisions for electrical outlet and switch boxes, pipes, ducts, and similar items.
  - 3. Seal electrical boxes at the back with sheet sealant pad. Where wires enter the boxes, seal the openings airtight around the wires and knockout openings.

### 3.04 TRIM ACCESSORIES

- A. General:
  - 1. Provide accessories in longest lengths available, and lay out to eliminate intermediate joints. Do not use pieces shorter than 24-inches.
  - 2. Install accessories to straight lines, or uniformly bent for curved surfaces, and shim as required for proper alignment and ground depth.
  - 3. Accurately align and neatly fit units at intermediate joints.
  - 4. Miter accessories at corner returns.
  - 5. At terminal ends, neatly abut units to close fully with intersecting surfaces.

6. Secure each unit using screws spaced at approximately 6-inches from each end and not over 16-inches on center in between, staggered at 8-inches on center for double-flange-type units.
- B. Corner Bead: Provide for external corners.
- C. Edge Trim:
1. Provide for perimeter edges abutting other construction.
  2. Provide for perimeter edges of floating-type suspended ceiling construction.
  3. Where sealant is required, set edge of casing bead spaced 1/8- to 3/16-inch from intersecting surfaces.
  4. Elsewhere, set edge of bead closely fitted against intersecting surfaces.
- D. Control Joints:
1. Ceilings: Install in ceilings exceeding 2,500-sq. ft. in area, with maximum distance between ceiling joints of 50-feet in either direction.
  2. Walls: Do not exceed 30-feet between control joints.

### 3.05 JOINT REINFORCEMENT

- A. General: Reinforce interior angles and flat joints prior to application of veneer plaster.
- B. Interior Angles: Position and secure reinforcement with staples, veneer plaster, or other cementitious material compatible with veneer plaster.
- C. Flat Joints: Tightly trowel embedment material over joint line to a depth of 1/32-inch. Center the reinforcement into soft embedment material and feather-out to a width of approximately 6-inches. Allow embedment material to set before plastering.

### 3.06 PLASTERING

- A. General:
1. Apply veneer plaster in accordance with ASTM C843, except where otherwise required by manufacturer's instructions.
  2. Apply veneer plaster to gypsum base as soon as possible after gypsum base is installed.
- B. Two Coat Application:
1. Scratch in a tight, thin coat of base coat plaster over entire area, immediately doubling back with plaster from the same batch to full thickness of 1/16- to 3/32-inch. Fill voids and imperfections. Leave surface rough by cross-raking with a fine wire rake or broom. Allow base coat to set to provide proper suction for finish coat.
  2. Scratch-in finish coat and double back to fill out to a smooth, dense surface, free of surface blemishes, to a full thickness of 1/8-inch. Final trowel finish coat after surface has become firm, holding trowel flat and using water sparingly. Do not over-trowel.
- C. Concealed Surfaces: Where concealed areas occur in veneer plastering work, veneer plastering may be omitted. Do not omit behind casework, furniture, furnishings and similar removable work.

3.07 CURING AND PROTECTION

- A. Maintain temperature and humidity conditions as required to protect the installation.
- B. Screen openings with cheesecloth or similar materials if glazing is not installed and building is subjected to hot, dry winds.
- C. Protect completed veneer plaster from damage or deterioration until final acceptance of work.

3.08 COMPLETION

- A. When complete, flat surfaces shall be true to plane and within specified tolerance.
- B. Finish surfaces shall be free from evidence of plaster base joints and joint treatments and shall be smooth, clean, and free from cracks, hot and grainy spots, discoloration, ridges, scratches, scaffold and tool marks, and other defects and damage.

END OF SECTION