

SECTION 09 26 10 - STUCCOMAX

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Divisions 00 and 01 Specification Sections, apply to this Section.

1.2 SECTION INCLUDES

- A. Materials and installation of interior StuccoMax plaster.

1.3 REFERENCED DOCUMENTS

- A. ASTM Standards:
 - ASTM E-119 Fire resistance
 - ASTM E-84 Surface Burning
 - ASTM D 5420-04 Impact resistance
 - ASTM G-26 Accelerated Weathering, QUV accelerated weathering
 - ASTM C-109 Compressive strength
 - ASTM E-136 Building materials combustibility
 - ASTM C-293 Flexural Strength MOR psi
 - ASTM C-190 Tensile Strength
 - ASTM C-297 Tensile Bond Strength
 - ASTM C-642 Water Absorption Permeability Test
 - ASTM C-157 Shrinkage
 - ICBO AC 11 Freeze Thaw
 - ASTM E-330 Wind Loads

1.4 DESIGN REQUIREMENTS

- A. Joints
 - 1. Provide expansion joints in the StuccoMax application where building movement is anticipated and at specified locations.
 - 2. Control joint spacing shall not exceed 30'.

1.5 PERFORMANCE REQUIREMENTS

TEST	METHOD	CRITERIA	RESULT
Surface Burning Test	ASTM E 84	Flame spread <25, Smoke <450	Zero fame spread, Zero smoke
Combustibility Test	ASTM E 136	No combustion	Pass
Fungal Resistance	ASTM G 21	Harbor no mold, mildew	Pass

1.6 SUBMITTALS

- A. Manufacturer's technical data sheet, specifications and Best Practice Guide
- B. Samples for architect's approval (when requested)

1.7 QUALITY ASSURANCE

- A. Manufacturer
 - 1. All materials manufactured, sold and distributed by GigaCrete, Inc. Las Vegas, NV.
 - 2. StuccoMax product manufactured under Intertek quality control program.
- B. Contractor Requirement
 - 1. Contractor must be licensed, insured and engaged in application practices of similar materials to those herein this specification.
 - 2. Employ skilled mechanics who are knowledgeable and experienced in similar material applications.
 - 3. Contractor must provide proper equipment, manpower and supervision on the jobsite to install the product in accordance with GigaCrete's Best Practice Guide publication.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Delivery
 - 1. Material shall be delivered to the jobsite in their original unopened package.

2. Material shall be inspected for damaged packages with damaged packages removed from the usable stock.

B. Storage

1. Product shall be stored indoors in a dry location free of moisture, high humidity, direct sunlight, off the floor and under cover.
2. Storage location shall be protected from excessive heat or freezing conditions.

C. Handling

1. Do not to throw, drop or mishandle unopened packages using caution to preserve condition of sealed packages.
2. Product shall be moved to the installation space and normalized to space ambient conditions at least 24 hours prior to the actual installation.

1.9 PROJECT CONDITIONS

A. Ambient and Surface Temperature

1. StuccoMax™ shall be applied in ambient air temperatures above 35°F and rising and remain above 40°F for a 24 hour period.
2. Do not apply StuccoMax™ during inclement weather or when inclement weather is inevitable unless appropriate weather protection is used.
3. Do not apply StuccoMax™ to substrates that are below 32°F or that are wet, frozen or contain frost.
4. Avoid installing StuccoMax™ in direct sunlight whenever possible. Provide shading when needed.
5. Follow industry standards typical to stucco trades best practices.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. GigaCrete Inc. Las Vegas, Nevada

2.2 ACCESSORIES

- A. Provide 093 plastic drywall control joints

- B. Provide plastic drywall casing beads for all areas of dissimilar building materials
- C. Provide wide flange outside plastic corner bead
- D. Provide 11-ounce fiberglass mesh supplied by GigaCrete for all vertical surfaces and 20-ounce mesh for all horizontal surfaces

2.3 FASTENERS

- A. Mechanical
 - 1. Provide power activated, minimum 9 gauge, corrosion resistant fastener with ½" washer or disk at fastener head, minimum ¾" wall penetration.

2.4 JOBSITE INGREDIENTS

- A. Clean potable water 50-75°F. Provide means to heat or chill water outside the specified temperature range.

2.5 JOBSITE MIXING

Package	StuccoMax™ packaged in 75# moisture resistant paper bags. Material volume exceeds the capability of a standard five-gallon bucket so mixing must be done in a vessel capable of holding ten gallons of material.
Water	Mixing water must be potable and from a municipal source. Water temperature should be considered and adjusted if necessary.
Mixing	Pour 4.5 quarts of water into the mixing bucket and begin to add StuccoMax™. Begin mixing while slowly adding in remaining StuccoMax™ bag contents. Mix time is approximately 3 minutes or until a smooth lump free consistency is met. Small amounts of water may be added to adjust material consistency if necessary.
Equipment	H/D Drills with typical plaster mixer attachments may be used. Hand held ergonomically engineered mixers are also acceptable. Avoid excessive high speeds as this can create heat and accelerate setting times, reducing workability.
Pot Life	StuccoMax™ bucket life is approximately 20 minutes. Plan the installation so that each batch can be conveniently applied within this time frame. Re tempering batches that are beginning to set is strongly discouraged.

PART 3 – EXECUTION

- A. Installers must qualify under the Quality Assurance requirement in this specification.

3.1 EXAMINATION

- A. Inspect wall per manufacturer's requirements, do not begin work until differences have been corrected.

3.2 SURFACE PREPARATION

- A. Identify and layout all specified accessory locations (control joints, casing beads, outside corner beads and inside corner beads).
- B. Fasten accessory items using fastening methods in section 2.3.

3.3 INSTALLATION

Apply StuccoMax material between any two accessory items without interruption to create a monolithic panel without cold joints. At no part of the installation shall wet StuccoMax abut set StuccoMax. Accessory item shall serve as termination points for each monolithically placed panel. Apply StuccoMax by hand or spray equipment to the prepared substrate and work flat. StuccoMax shall be installed to a minimum 3/16" thickness. General awareness of ambient conditions is critical. Do not install StuccoMax in ambient outside of conditions spelled out in this specification. Do not install StuccoMax on wet substrates. Adjustments in application, scheduling and curing must be made if hot, dry, moist or freezing conditions exist or may occur during any part of the installation or cure. The installation shall be true, plumb and square. Material must be removed from control joint centers, if filled, before the StuccoMax sets.

- A. Accessory Items – Non Metallic/Non Rigid, UV rated Plastic preferred.
 - 1. StuccoMax must not touch dissimilar materials such as metal frames; therefore the use of plastic accessories is necessary as termination points.
 - 2. StuccoMax must not be applied over any surface where there is water trapped behind or within the substrate being coated. Test all walls for trapped water prior to coating.
 - 3. Casing Beads – Install casing beads at all StuccoMax termination points such as doors, windows, floors, ceilings or any other intersection point of dissimilar construction. Install casing beads back-to-back to form a two part expansion joint at areas of anticipated structural movement. Back-to-back void spacing is based upon the level of anticipated movement. Refer to architectural drawings for specified space width.
 - 4. Control Joints – Install control joints by removing EPS location by hot knife or saw where specified on the architect's drawings. Place the 093 into the voided area ensuring that the joint flange has sufficient support on either side of the void for fastening.
 - 5. Outside Corner Beads – Install outside corner beads such that the edge bead is revealed at the specified StuccoMax thickness in each direction.
- B. Finishes

1. Smooth – Apply specified skim coat material and build up layers 1/8” at a time until ideal thickness is attained. Finish with steel trowel for a smooth finish following common plastering techniques.

3.4 PROTECTION

- A. Provide protection of installed StuccoMax from excessive heat, cold, water, wind and other trade activity.
- B. Provide protection of stored material from excessive heat, cold, high humidity and water and other trade activity.

- END OF SECTION 09 26 10 -