

**Structalath Mega Lath System**

**Section 09 24 23**

**Corporate • P.O. Box 397 • Fortson • Georgia • 31808 • 800-755-0825 • FAX 706-569-6704**

**Technical • 800-760-2861**

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## **Application Instructions**

### **3.01 INSPECTION**

- A. Prior to the application of Master Wall Inc.® Cemplaster Fiberstucco, the substrate shall be examined for compliance with the contract documents and Master Wall Inc.® specifications. The substrate shall have no planar irregularities greater than ¼" in 10' (6.4 mm in 3.05 m). The General Contractor and Architect shall be advised in writing of any discrepancies. Work shall not proceed until unsatisfactory conditions are corrected.

### **3.02 PREPARATION**

- A. Protect contiguous work from damage during application of the Cemplaster Fiberstucco. Temporary covering may be required to prevent over spray or splattering of exterior finish coatings on other work.
- B. Protect substrate from inclement weather during installation. Prevent infiltration of moisture behind the system that may affect the substrate or the adhesion of the insulation board to the substrate.
- C. Cemplaster Fiberstucco, Adhesive, Base Coats and Finishes shall not be installed when ambient air temperature is below 40°F (5°C). The temperature shall remain at or above 40°F (5°C) during mixing, application and until materials have cured.
- D. Sufficient scaffolding, manpower and tools shall be provided to prevent cold joints.
- E. The substrate shall be clean to obtain optimum bond between substrate and adhesive used to attach insulation board.
- F. Flashings shall be installed as required by construction documents and Master Wall Inc.®'s details in a manner to prevent the intrusion of water behind the Cemplaster Fiberstucco. All flashing materials should direct the water to the exterior face of the finished system.
- G. Gypsum Sheathing in compliance with ASTM C1396, Glass Mat Faced Gypsum Sheathing in compliance with ASTM C 1177 and Exterior or Exposure 1 wood-based sheathing (plywood and OSB [Oriented Strand Board]).
  - 1. Verify acceptable installation of sheathing according to the type of sheathing specified.
  - 2. Protect the substrate with a moisture barrier as required by the applicable code and Install lath and accessories.

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**3.03 INSTALLATION, GENERAL**

- A. Comply with the manufacturers' current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the Cemplaster Fiberstucco.
- B. Mix materials in accordance with Master Wall® literature.
- C. Comply with local building codes.

**3.04 MOISTURE BARRIER (WRB) INSTALLATION** *(supplied by various manufacturers) <edit>*

- A. **WRB01** Apply 15-lb/100 ft<sup>2</sup> (0.683 kg/m<sup>2</sup>) vapor permeable asphalt saturated felt in compliance with ASTM D 226, Type I or similar in accordance with building code. Apply shingle fashion lapping the water barrier 2" (50 mm) horizontally and 6" (15 cm) horizontally. Apply in the same manner if used as a single-layer slip sheet.
- B. Peel & Stick Tape: Install in strict accordance with manufacturer's recommendations where shown on drawings, **optional/required** behind control joints. *<edit>*

**3.05 ACCESSORY, LATH AND CEMPLASTER FIBERSTUCCO INSTALLATION**

After satisfactory inspection of surfaces and correction of any deviations from specification requirements commence the Cemplaster Fiberstucco installation in accordance with the method below.

- A. Installation over frame construction with sheathing and reinforced masonry with a WRB:
  - 1. Weep Screed Installation
    - a. Install foundation weep screed at the base of the wall securely to framing with the appropriate fastener. Locate foundation weep screed so that it overlaps the joint between the foundation and framing by a minimum of 1 inch (25 mm). Locate the foundation weep screed minimum 4 inches (101 mm) above earth grade, 2 inches (51 mm) above finished grade (paved surfaces, for example).
  - 2. Weather Protection
    - a. Weather barrier will lap onto foundation weep screed as noted in Master Wall® details.
    - b. Verify that WRB installation is complete as noted in Section 3.04.
  - 3. Casing Bead and Expansion Joint Installation
    - A. Install casing beads at Cemplaster Fiberstucco terminations—doors, windows and other through wall penetrations. Install expansion joints (or back-to-back casing beads) at building expansion joints, where the Cemplaster Fiberstucco is to be installed over dissimilar construction or substrates, at changes in building height, at floor lines, columns, and cantilevered areas. Install full accessory pieces where possible and avoid small pieces. Seal adjoining pieces by embedding ends in sealant. Abut horizontal into vertical joint accessories. Attach at 6-inch (152 mm) centers into framing with appropriate fasteners.

*(Note: refer to architectural drawings for joint locations and accessory type. Moisture protection must be continuous behind joints and accessories.)*

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4. Control Joint Installation
  - a. Install control joints every 144 ft<sup>2</sup> (13.4 m<sup>2</sup>) for walls and 100 ft<sup>2</sup> (9.3 m<sup>2</sup>) maximum (as indicated on the construction documents). Tack in place as insure proper alignment during the application of the lath. Wire tie control joints to lath at 6 inches (152 mm) on center if framing members aren't present under the accessory.
  - b. Seal any exposed ends and edges preferably by setting them in sealant during installation to prevent water entry.
  - c. Install peel and stick flashing tape under wall control joint locations if specified. <not a requirement, edit>
  
5. Structalath Mega Lath Installation
  - a. Determine starting point and plan comfortable working length for each lath section.
  - b. The lath can be unrolled on the ground and pre-cut, or the lath can be unrolled against the wall and then cut. If unrolled on the ground, minimize any undue distortions or stepping on the lath.
  - c. Ensure when installing that furring points are oriented against the wall.
  - d. Position the starting end of the lath at the appropriate height. Drive a roofing nail into one of the starting ears, against a vertical wire.
  - e. Unroll the lath or place lath on the wall taking care it lays flat on the wall surface.
  - f. Every 6-8 feet drive another roofing nail loosely to position the mesh at the right height. This nail should be between vertical wires. Continue to end of desired lath section.
  - g. Cut the lath as needed at accessory locations.
  - h. Pull any slack from the lath and nail the top loosely. Fasten the lath vertically at mid point of the section and fasten the lath vertically every 6 inches (152 mm) or at every pair of Mega Lath twin wires. At either end of the lath section, pull the lath tight either by hand, or by driving nails at an angle and nail off vertically. Once lath is tightened at each end, complete fastening at each stud location.
  - i. Lap Structalath Mega Lath one mesh width, this is approximately 3/4 inch (17 mm). Lap End laps approximately 1½ inches (38 mm). Vertical laps must occur over a framing member.
  - j. Fastener types and sizes must be in accordance with ASTM 1063 or in accordance with local building codes or in accordance with engineering drawings and specifications for the project. If staples are being utilized, they should be oriented parallel to the framing member to minimize risk of missing the framing, and puncturing the WRB.
  
6. Inside and Outside Corners
  - a. Install corner lath at inside corners and corner bead at outside corners over lath. Attach through lath into framing at 6 inches (152 mm) on center with appropriate fasteners.

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7. Cemplaster Fiberstucco Application
  - a. Mix [Master Wall® Cemplaster Fiberstucco](#) in strict accordance with Master Wall Inc.® recommendations adding additional components identified in the project specifications.
  - b. Scratch Coat: apply Cemplaster Fiberstucco with sufficient pressure to key into and embed the metal lath (if used). Apply sufficient material, approximately half the Cemplaster Fiberstucco ground thickness to cover the metal lath and to permit scoring the surface. Score the Cemplaster Fiberstucco horizontally upon completion of each panel in preparation for brown coat if a “double back” application of a wet scratch and brown coat isn’t being used.
  - c. Brown Coat: as soon as the scratch coat is firm enough to receive the brown coat without damage, apply the brown coat with sufficient pressure to ensure intimate contact with the first coat to an approximate thickness as needed to bring the Cemplaster Fiberstucco to a uniform thickness that matches the grounds of the accessories. Use a rod or straight edge to bring the surface to a true, even plane. Fill depressions in plane with Cemplaster Fiberstucco.
  - d. After the Cemplaster Fiberstucco has become slightly firm float the surface lightly with a Darby or wood float to densify the surface and to provide a smooth, even surface.
  - e. Moist cure using fogging, plastic films or other method acceptable to the design professional for 48-72 hours. Mixes with [Master Wall® Stucco Ad Liquid](#) do not need moist curing.
  - f. Allow to fully cure until clean, dry and hard before finishing, typically 7-14 days.
  - g. See Master Wall® Technical Bulletins and data sheets for additional curing, drying and application recommendations.

*(Note: The proper time to float is when the wood float no longer sticks to the surface of the Cemplaster Fiberstucco)*
8. Primecoat Application (PRIME01)
  - a. Apply [Primecoat](#) or [Sanded Primecoat](#): Apply evenly according to the data sheet using brush, roller or proper spray equipment over the clean, dry Cemplaster Fiberstucco and EIFS build-outs and allow to dry thoroughly before applying finish.
9. Finish Application (FIN01)
  - a. Finish Options: [Superior Elastomeric Plus Finish](#) (FIN02)
  - b. Surface irregularities in the base coat, such as trowel marks, insulation board lines and reinforcing mesh laps shall be corrected prior to the finish application.
  - c. Apply the [Superior Elastomeric Plus Finish](#) in the color and texture as approved by the project owner or the project architect with sufficient manpower and equipment to insure a continuous operation without cold joints, scaffolding lines etc. Texture finish shall match approved jobsite samples. Thickness and coverage will vary depending on the specified final appearance.

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- d. Trowel Application – (Perfect, Spray, R-Coarse, Desert Sand, Refinish)
  - 1. Apply the Superior Finish to the clean, dry and cured base coat with a stainless steel trowel.
  - 2. Level the surface to a uniform thickness of 3/32" to 1/8" (2.4-3.2 mm).
  - 3. Float the Finish with a plastic float in a uniform motion to achieve the desired texture. (Refinish cannot be floated. A second application of the Refinish shall be applied to create the desired texture.)
- e. Spray Application – (Perfect, Spray, R-Coarse, Desert Sand, Refinish)
  - 1. Using a conventional plaster hopper gun or a proven pump, spray finish over the primed base coat to achieve desired texture using a circular overlapping pattern keeping the spray gun at a 90° angle to the surface and maintaining the same distance to the wall at all times.
  - 2. Be cautious of flooding an area with too much finish because it may appear shinier when it dries.

**3.06 JOB SITE CLEANUP**

- A. Clean work area in accordance with contract documents removing all excess materials, droppings and debris. Clean adjacent surfaces.
- B. Other trades may now install their work – Sheet Metal (Section 07620), Sealants (Section 07900), Mechanical (Section 15000), Electrical (Section 16000).

End of Specification

**Disclaimer**

This Specification is published for general informational purposes only and is not intended to imply that these are the only materials, procedures, or methods, which are available or suitable. Materials, procedures, or methods may vary according to the particular circumstances, local building code requirements, design conditions, or statutory and regulatory requirements. While the information in this specification is believed to be accurate and reliable, it is presented without guarantee or responsibility on the part of Master Wall Inc.®