PART I – GENERAL

1.01 SUMMARY
A. This document is to be used in preparing specifications for projects utilizing the Master Wall Inc.® Uninsulated Finish Coatings applied over approved concrete and masonry substrates. Related Master Wall Inc.® documents:
   1. Master Wall Inc.® Superior Finishes over Stucco Data Sheet
   2. Master Wall Inc.® Superior Finishes over Stucco Application Instructions
   3. Master Wall Inc.® Superior Finishes over Stucco Installation Details
   4. Master Wall product data sheets
B. Related Sections
   1. Unit Masonry – Section 04200
   2. Concrete – Sections 03300 and 03400
   3. Light Gauge Cold Formed Steel Framing – Section 05400
   4. Wood Framing – Section 06100
   5. Sealant – Section 07900
   6. Flashing – Section 07600
   7. Stucco – Section 092400

1.02 SUBMITTALS
A. Manufacturer’s specifications, details, installation instructions and product data
B. Manufacturer’s standard warranty
C. Applicator’s industry training credentials
D. Samples for approval as directed by architect or owner
E. Sealant manufacturer’s certificate of compliance with ASTM C 1382
F. Prepare and submit project-specific details (when required by contract documents)

1.03 REFERENCES
A. ASTM Standards:
   ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
   ASTM E96 Test Methods for Water Vapor Transmission of Materials
1.04 DESCRIPTION
A. General: Master Wall Inc.® Superior Finishes over Stucco applied over ASTM C926 stucco. The products are applied in accordance with the Superior Finishes over Stucco application Details.

B. Methods of Installation
1. Field Applied: The Superior Finishes over Stucco is applied to the substrate in place.

C. Design Requirements
1. Substrates
   a. The maximum deflection under full flexural design loads of the substrate shall not exceed L/360.
   b. Application shall be designed for their intended use by the design professional.
   c. Approved substrates include cured, unpainted and clean ASTM C926 stucco.
   d. The project architect or engineer shall engineer the application with regard to the required structural performance.
   e. Substrates designed as part of a retaining wall or freestanding wall shall incorporate appropriate drainage means to prevent the transfer of water from the backside and shall be capped to prevent water entry into the wall system.

2. The stucco shall be flat within 6.4 mm (1/4 in) in a 3.05 m (10 ft) radius.
3. The slope of inclined surfaces shall not be less than 6:12, and the length shall not exceed 305 mm (12 in).
4. Vapor Retarders and barriers – The use and location of vapor retarders and/or barriers within a wall assembly is the responsibility of the project designer and shall comply with local building code requirements.
5. Dark Colors - The use of dark colors must be considered in relation to wall surface temperature as a function of local climatic conditions. Use of dark colors in high temperature climates can affect the performance of the wall system.
6. Flashing: Shall be provided at all roof-wall intersections, windows, doors, chimneys, decks, balconies and other areas as necessary to prevent water from entering behind the Superior Finishes over Stucco and wall system.
1.05 PERFORMANCE REQUIREMENTS

A. Superior Finishes over Stucco shall have been tested as follows:

**Weather Resistance and Durability Performance**

<table>
<thead>
<tr>
<th>TEST</th>
<th>METHOD</th>
<th>CRITERIA</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Accelerated Weathering</td>
<td>ASTM G 153 (Formerly ASTM G 23)</td>
<td>No deleterious effects at 2000 hours when viewed under 5x magnification</td>
<td>Pass</td>
</tr>
<tr>
<td>2. Accelerated Weathering</td>
<td>ASTM G 154 (Formerly ASTM G 53)</td>
<td>No deleterious effects at 2000 hours</td>
<td>Pass</td>
</tr>
<tr>
<td>3. Freeze/Thaw Resistance</td>
<td>ASTM E 2485</td>
<td>No deleterious effects at 10 cycles when viewed under 5x magnification</td>
<td>Pass</td>
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<td>4. Water Penetration</td>
<td>ASTM E 331 (modified per ICC-ES AC 235)</td>
<td>No water penetration beyond the plane of the base coat/insulation board interface after 15 minutes at 6.24 psf (299 Pa) or 20% of design wind pressure, whichever is greater</td>
<td>Pass at 2.86 psf (137 Pa), 6.24 psf (299 Pa), and 12.0 psf (575 Pa) consecutively</td>
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<tr>
<td>5. Water Resistance</td>
<td>ASTM D 2247</td>
<td>No deleterious effects at 14 day exposure</td>
<td>Pass @ 28 days</td>
</tr>
<tr>
<td>6. Salt Spray</td>
<td>ASTM B 117</td>
<td>No deleterious effects* at 300 hours</td>
<td>Pass @ 300 hrs</td>
</tr>
<tr>
<td>7. Abrasion Resistance</td>
<td>ASTM D 968</td>
<td>No cracking or loss of film integrity at 528 quarts (500 L) of sand</td>
<td>Pass</td>
</tr>
<tr>
<td>8. Mildew Resistance</td>
<td>ASTM D 3273</td>
<td>No growth supported during 28 day exposure period</td>
<td>Pass</td>
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**Fire Performance**

<table>
<thead>
<tr>
<th>TEST</th>
<th>METHOD</th>
<th>CRITERIA</th>
<th>RESULT</th>
</tr>
</thead>
</table>
| 1. Surface Burning (individual components) | ASTM E 84 | Individual components shall each have a flame spread of 25 or less, and smoke developed of 450 or less | Flame Spread: 0  
Smoke Developed: 0 |

1.06 QUALITY ASSURANCE

A. Qualifications

1. Manufacturer: Shall be Master Wall Inc.® Superior Finishes. All materials shall be manufactured or sold by Master Wall Inc.® and shall be purchased from Master Wall Inc.® or its authorized distributors.
2. Contractor: Shall be knowledgeable in the proper installation of the Master Wall Inc.® Superior Finishes and related Coatings. Additionally, the contractor shall possess a current Master Wall Inc.® applicator certificate issued by Master Wall Inc.®

B. Regulatory Requirements

1. Any insulation board foam trims shall be separated from the interior of the building by a minimum 15-minute thermal barrier.
2. The use and maximum thickness of the insulation board shall be in accordance with the applicable building codes.
C. Mock-Up
   1. The contractor shall, before the project commences, provide the owner/architect with a mock-up for approval.
   2. The mock-up shall be of suitable size as required to accurately represent the products being installed, as well as each color and texture to be utilized on the project.
   3. The mock-up shall be prepared with the same products, tools, equipment and techniques required for the actual application. The finish used shall be from the same batch that is being used on the project.
   4. The approved mock-up shall be available and maintained at the job site.
   5. For panelized construction, the mock-up shall be available and maintained at the panel fabrication location.

1.07 DELIVERY, STORAGE AND HANDLING
   A. All Master Wall Inc.® materials shall be delivered to the job site in the original, unopened packages with labels intact.
   B. Upon arrival, materials shall be inspected for physical damage, freezing, or overheating. Questionable materials shall not be used.
   C. Deliver all materials in original unopened packages with labels intact. Verify all quantities, colors, and textures against bill of lading.
   D. Store all materials protected from direct exposure to weather conditions and at temperatures not less than 40°F (4°C) or greater than 110°F (43°C).
   E. Material Safety Data Sheets (MSDS) or Safety Data Sheets (SDS) shall be supplied for the components of the system and be available at the job site.

1.08 PROJECT CONDITIONS
   A. Ambient air temperatures shall be 40°F (4°C) or greater and rising at the time of installation of the Master Wall Inc.® products and shall remain at 40°F (4°C) or greater for at least 24 hours after application.
   B. Provide supplemental heat and protection as required when the temperature and conditions are not in accordance with installation requirements. Sufficient ventilation and time shall be provided to ensure that materials have sufficiently dried prior to removing supplemental heat.
   C. Adequate protection shall be provided to prevent weather conditions (humidity, temperature, and precipitation) from having an affect on the curing or drying time of Master Wall Inc.® materials.
   D. Adjacent materials and the Superior Finishes over Stucco shall be protected during installation and while curing from weather and shall be protected from site damage.
   E. Coordinate installation of the Superior Finishes over Stucco with related work specified in other sections to ensure that the wall assembly is protected to prevent water from getting behind the system. The cap flashing shall be installed as soon as possible after the finish coat has been applied. When this is not possible, temporary protection shall be provided immediately in this area.
   F. All sealant work shall be installed in a timely manner. Protect open joints from water intrusion during construction with backer rod, or temporary covering, until permanently sealed.
   G. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffolding lines, and texture variations, etc.
   H. Existing Conditions - The contractor shall have access to electric power, clean water, and a clean work area at the location where the Master Wall Inc.® materials are to be applied.

1.09 SEQUENCING AND SCHEDULING
   A. Installation of the Superior Finishes over Stucco shall be coordinated with other construction trades.
   B. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffolding lines, texture variations, etc.

1.10 LIMITED MATERIALS WARRANTY
   A. Provide a manufacturer’s warranty against defective material upon request.

1.11 MAINTENANCE
   A. Maintenance and repair shall follow the procedures noted in Master Wall Inc.® Technical Bulletins #112 and #129.
PART II – PRODUCTS

2.01 MANUFACTURER
A. All components of the Superior Finishes over Stucco shall be supplied or obtained from Master Wall Inc.® or its authorized distributors. Substitutions or additions of materials other than specified will void the warranty.

2.02 MATERIALS
A. Water: Shall be potable, clean and free of foreign matter.
B. Metal Flashing Components: Complying with SMACNA Recommendations. Reference Section 07620.
D. Window & Door Systems: Detailed by the designer and suitable for the regional application. Reference Section 08000.

2.03 COMPONENTS
(Typical Application/Optional Component)
A. Primer – Especially useful under dark colors
   1. Primecoat Primer - Acrylic-based tintable primer
   2. Sanded Primecoat Primer - Acrylic-based tintable primer with sand
B. Superior Finishes: Master Wall Inc.® Superior Finishes are acrylic-based wall coatings available in a variety of colors and textures. The following textures are available:
   1. Perfect2.0 (Perfect) - riled texture
   2. Fine Sand 1.0 (Spray) – sand type texture
   3. Medium Sand 1.5 (Desert Sand) – coarse sand texture
   5. Versatex 0.5 (Refinish) – Fine texture used to create numerous finishes
C. Finish Enhancements
   1. Silicone Coat - Factory added silicone enhancement for better water resistance and to keep buildings cleaner.
   2. Excel Mildew Enhancement - Factory added mildew booster exceeding ASTM D3273 requirements.
   3. Elastomeric Plus - Increases flexibility and bridges minor hairline cracks.
D. Specialty Finishes
   1. Superior Stone
   2. Aggrestone
   3. Lumia
   4. Plaster Flex
   5. Metallic Cote
   6. Savannah
   7. Marbleflex
   8. Travertine
   9. Eco Glass
   10 Aggrelime
   11. Brick Finish System
E. Accents & Coatings
   1. Roller-flex architectural coating
   2. Elasto-flex elastomeric architectural coating
   3. Clearshield clear protective coating
   4. Vintique antiquing accent
PART III – EXECUTION

3.01 INSPECTION
A. Prior to the application of the Master Wall coatings 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 MIXING
A. Superior Finishes: Mix the finish coat with a Wind-lock B-MTW using a ½”, 400-500 RPM drill motor. Small amounts of water can be added for workability. Mix until reaching a uniform consistency. (It is important that the same amount of water be added to each pail to ensure a consistent color.)
B. Additives shall not be added to Master Wall Inc.’s materials unless written approval has been received from Master Wall Inc.

3.03 PREPARATION
A. Protect contiguous work from damage during application of the Master Wall coatings. Temporary covering may be required to prevent overspray 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. Finishes shall not be installed when ambient air temperature is below 40ºF (5ºC). The temperature shall remain at or above 40ºF (5ºC) 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 finish.
F. Flashings shall be installed as required by construction documents and Master Wall Inc. details in a manner to prevent the intrusion of water behind the system. All flashing materials should direct the water to the exterior face of the finished system.

3.04 INSTALLATION, GENERAL
A. Comply with the manufacturers’ current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the finish.
B. Comply with local building codes.

3.05 PRIMER APPLICATION
A. Primecoat Primer
   1. Prime surface with Master Wall Inc.® Primecoat or Sanded Primecoat tinted to match the selected finish color. Allow Primecoat or Roller-Flex to cure a minimum of 12 hours prior to finish coat application.
3.06 FINISH COAT APPLICATION
   A. Superior Finish Coat Application
      1. Surface irregularities in the base coat, such as trowel marks and reinforcing mesh laps shall be corrected prior to the finish application.
      2. Apply the Master Wall Inc.® Superior 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.
      3. Trowel Application – (Perfect 2.0, Fine Sand 1.0, Medium Sand 1.5, Versatex 0.5)
         a. Apply the Superior Finish to the clean, dry and cured base coat with a stainless steel trowel.
         b. Level the surface to a uniform thickness of 3/32” to 1/8” (2.4-3.2 mm).
         c. Float the Finish with a plastic float in a uniform motion to achieve the desired texture. (Versatex 0.5 cannot be floated easily. A second application of the Versatex 0.5 may be applied to create the desired texture.)
      4. Spray Application – (Perfect 2.0, Fine Sand 1.0, Medium Sand 1.5, Versatex 0.5)
         a. Prime surface with Master Wall Inc.® Primecoat or Sanded Primecoat tinted to match the selected finish color. Allow Primecoat or Roller-Flex to cure a minimum of 12 hours prior to finish coat application.
         b. 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 90º angle to the surface and maintaining the same distance to the wall at all times.
         c. Be cautious of flooding an area with too much finish because it may appear shinier when it dries.
      5. Specialty Finishes: Follow individual product data sheet application instructions.

3.07 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).

3.08 PROTECTION
   A. Superior Finishes over Stucco shall be protected from inclement weather and other sources of damage until dry and permanent protection in the form of flashings, sealants, etc. are installed.

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.®