



## **Part 1 General**

### **1.01 GENERAL**

- A. The Master Wall Uninsulated Finish System is comprised of an acrylic modified base coat, fiberglass mesh, and an acrylic finish that is applied over a variety of structural or nonstructural substrates.

### **1.02 SCOPE OF WORK**

- A. Provide all materials, labor, and equipment to install the Field Applied and/or Panelized Master Wall Uninsulated Finish System.
- B. Related Sections:
  - 1. Concrete 03300
  - 2. Unit Masonry 04200
  - 3. Light Gauge Steel Framing 05400
  - 4. Sheathing 06100
  - 5. Sheet Metal Flashing and Trim 07620
  - 6. Sealants 07900
  - 7. Doors and Windows 08000

### **1.03 TERMS / DEFINITIONS**

- A. Applicator – The contractor that applies the Master Wall Uninsulated Finish System.
- B. Base Coat – The material applied to the face of the substrate.
- C. Base Coat Mixture – A field mixed blend of base coat and Portland cement.
- D. Building Expansion Joint – A joint through the entire building structure designed to accommodate structural movement.
- E. Expansion Joint – A designed joint in the continuity of a material, assembly, or system, designed to accommodate movement.
- F. Finish Coat – An acrylic based, factory mixed decorative and protective coating that is applied to the base coat or to an approved substrate that has been properly prepared and primed.
- G. Primer – An acrylic solution applied to the substrate to equalize the absorption and/or enhance the bond of the coating.
- H. Reinforcing Mesh – Balanced, open weave, basic glass fiber mesh supplied by the manufacturer of the Uninsulated Finish System, treated for compatibility with other materials of the system, which functions to strengthen the system and adds impact resistance.
- I. Substrate - The approved material to which the Uninsulated Finish System is applied.
- J. Uninsulated Finish System – Coatings that are applied over a variety of substrates, without insulation, in one or multiple coats.



## 1.04 QUALITY ASSURANCE

### A. Design and Detailing

#### 1. General

- a. Master Wall Inc.'s current published specifications, data sheets, technical bulletins and other literature/information are minimum standards and guidelines that shall be followed when designing and detailing a project with the Master Wall Uninsulated Finish System.
- b. Details shall conform to Master Wall Inc.'s specifications and application instructions and shall be consistent with the project requirements.
- c. Master Wall Inc. must approve deviations from the standard published specifications and application instructions in writing.
- d. The architect, engineer or the designer of the project should determine where the dew point would occur in relationship to the wall assembly and the project location during summer and winter conditions.
- e. The minimum slope of inclined surfaces shall not be less than 6" in 12" with a maximum length of 12" unless approved in writing by Master Wall Inc. Inclined surfaces which are or could be defined as roofs by the building codes or application are not approved by Master Wall Inc.
- f. The Master Wall Uninsulated Finish System shall not be used on parapet caps.
- g. It is the responsibility of the architect and the purchaser to determine if a product is suitable for their intended use. The architect or designer of the project shall be responsible for all decisions pertaining to the design, details, structural capability, attachment details, shop drawings and the like. Master Wall Inc. has prepared specifications, data sheets and technical bulletins to assist as guidelines for the use and installation of the products. Master Wall Inc. is not responsible for the design, details, structural capability, attachment details and shop drawings whether it is based on Master Wall Inc.'s information or not.

#### 2. Substrates

- a. Acceptable substrates are poured in place concrete, precast concrete, block, brick, and conventional stucco.
- b. The flatness and finished appearance of the Master Wall Uninsulated Finish System will depend on the flatness of the substrate and the skill of the applicator.
- c. Substrates not approved in the manufacturer's published literature shall be approved by the manufacturer in writing prior to the application of the system.
- d. The project architect or engineer shall engineer the substrate with regard to the required structural performance.

#### 3. Expansion Joints

- a. Expansion joints
- b. are required at building expansion joints, at prefabricated panel joints, where substrates change, and where structural movement is anticipated. Reference construction documents for specific locations.



4. Sealants

- a. Sealants and backer rod, as required at expansion joints and dissimilar substrates, shall provide a complete watertight system.
- b. The sealants in an expansion joint, or any sealant joint that anticipates significant movement, shall be bonded to the base coat, not the finish coat. Providing reinforcing mesh is used, the color of the mesh shall not be visible and the texture of the mesh shall not be exposed within the base coat at these locations.

5. Flashings

a. Roof

- 1) Crickets and step flashing shall be properly installed around chimneys.
- 2) Flashing shall be installed at rooflines in a manner to prevent any intrusion of water behind the Uninsulated Finish System. This shall include the use of roof kick-out flashing at roof terminations.

b. Openings

- 1) Heads, jambs, and sills of all rough openings shall be treated in accordance with the designers' requirements and per window manufacturer requirements in a manner to prevent any intrusion of water behind the Uninsulated Finish System.

6. Penetrations

- a. All penetrations through the system such as hose bibs, dryer vents, lighting fixtures, air-conditioning hoses, etc. must be properly sealed to insure the integrity of the system.

B. Qualifications

1. The Manufacturer shall have manufactured Uninsulated Finish System in the United States for at least 10 years.
2. The Applicator shall be knowledgeable in the proper installation of the Uninsulated Finish System.
3. The Applicator shall have demonstrated the ability to install the system on projects of similar size and complexity.
4. The Manufacturer of the substrate shall have demonstrated the ability to manufacture the substrate for projects of similar size and complexity.
5. The Applicator shall provide the proper equipment, manpower and supervision on the job site to install the system in compliance with project plans and specifications.
6. The sealant contractor shall be experienced in the installation of high performance industrial and commercial sealants.
7. Prior to the installation of the Master Wall Uninsulated Finish System, erect sample wall mock-up using materials and joint details required for final work. Provide special features as directed for sealant and contiguous work. Build mock-up at the site where directed of full thickness, indicating the proposed color, texture, and workmanship to be expected in the completed work. Obtain architect's acceptance of the mock-up in regard to aesthetic quality before start of work. Retain mock-up during construction as a standard for judging completed work. Do not alter, move, or destroy mock-up until work is completed, and until final acceptance of the project by architect.



#### 1.05 SUBMITTALS

- A. The Applicator shall submit a list of completed projects of like size and complexity.
- B. The Applicator shall submit a certificate of training indicating that they have been given instructions on the proper installation of the Uninsulated Finish System.
- C. The Applicator shall submit Uninsulated Finish System Manufacturer's current literature, data sheets, brochures, and specifications.
- D. The Applicator shall submit sufficient samples of each finish texture and color selected. The samples shall be prepared with the same tools and techniques required for the actual project. Color and texture should be approved based on the job site mock-up samples.
- E. The Applicator shall provide any shop drawings that may be applicable to the project for approval by the project architect.

#### 1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver all materials in original unopened packages with labels intact. Verify all quantities, colors, and textures against bill of lading.
- B. 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).
- C. Material safety data sheets (MSDS) shall be supplied for the components of the Uninsulated Finish System and be available at the job site.

#### 1.07 JOB 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 Uninsulated Finish System shall be protected during installation and while curing from weather and shall be protected from site damage.
- E. Coordinate installation of the Master Wall Uninsulated Finish System with related work specified in other sections to ensure that the wall assembly is protected to prevent water from getting behind the Uninsulated Finish 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 sealants 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, texture variations, etc.



## 1.08 REPAIR AND MAINTENANCE

- A. Refer to Master Wall Inc. specific repair and maintenance procedures.
- B. Sealants and flashings shall be inspected annually to verify that the products are not allowing water intrusion behind the Uninsulated Finish System. If sealant and/or flashings are allowing water intrusion behind the Uninsulated Finish System, repairs should be made immediately.

## 1.09 LIMITED MATERIALS WARRANTY

- A. A Limited Materials Warranty shall be issued upon the receipt of a properly completed warranty request form.

## PART 2 PRODUCTS

### 2.01 GENERAL

- A. All components of the Master Wall Uninsulated Finish System shall be obtained from Master Wall Inc. or its authorized distributors. No substitutions of, or additions of, other materials shall be submitted without prior written permission from Master Wall Inc. Substitutions or additions will void the warranty.

### 2.02 MATERIALS

- A. Bonding Agent (as needed)
  1. BA57 – An acrylic emulsion that is applied to approved substrates that are properly prepared to equalize the absorption and/or enhance the bond of the coatings.
- B. Reinforcing Mesh (optional)
  1. Standard Mesh – nominal 4.5 oz./sq. yd. open weave glass fiber fabric, treated for alkaline resistance and compatibility with Master Wall Base Coats, and conforming to ASTM D-76, D-579, D-5035, and MIL-Y-1140.
- C. Base Coats
  1. F & M Plus (preferred): An acrylic-based product mixed one-to-one by weight with Portland cement designed for use over an approved substrate. (F & M Plus is recommended for use as the base coat in the Master Wall Uninsulated Finish System when substrates require leveling.)
  2. Foam & Mesh (F&M) Adhesive: An acrylic-based product mixed one-to-one by weight with Portland cement designed for use over an approved substrate.
  3. Bagged Base Coat (MBB): A polymer based cementitious product mixed with 5 to 6 quarts of water for use over an approved substrate.
- D. Water Resistant Base Coat
  1. Guardian – An acrylic-based product mixed one-to-one by weight with Portland cement for use over an approved substrate. (This product should be used as designated on the construction drawings where additional resistance to moisture is needed, i.e. sloped surfaces.)



*Section 09 97 26*

*Corporate • P.O. Box 397 • Fortson • Georgia • 31808 • 800-755-0825 • FAX 706-569-6704  
Technical • 800-760-2861 • FAX 734-433-0930*

- E. Finish: Master Wall Inc.'s "Superior" Finishes are acrylic-based wall coatings available in a variety of colors and textures. The following textures are available:
1. Perfect - riled texture
  2. Spray – sand type texture
  3. R-Coarse – coarse riled texture
  4. Desert Sand – coarse sand texture
  5. Refinish – fine texture used to create numerous finishes
  6. Superior Stone & Aggrestone Finishes – clear acrylic matrix filled with colored ceramic beads

Note: The above textures excluding Superior Stone & Aggrestone Finishes are also available in the Aggre-flex Superior Silicone Coat product line, the Superior Elastomeric Coat product line, and the Aggre-flex Superior Excel Finish Coat product line. Superior Silicone Coat combines acrylic and the siloxane polymers to provide the maximum resistance to moisture. Superior Elastomeric Coat utilizes elastomeric polymers to enable the finishes to bridge minor cracking. Superior Excel Finish Coat provides additional protection from mildew and algae.

- F. Water: Shall be clear, clean and potable without any foreign matter in the solution that may affect the color and setting qualities of the cement, base or finish coat.
- G. Cement: Type I or I-II Portland cement meeting ASTM C-150.
- H. Sealants Systems (waterproofing trades): Reference sealant specification (Section 07920) and Master Wall sealant recommendations (Technical Bulletin MW-131-050101) for acceptable sealants.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Prior to installation of the Uninsulated Finish (UF) System, the contractor shall verify that the substrate:
1. Is of a type listed in Section 1.04.C.1.
  2. Is flat within 6.4 mm (1/4 in) in a 3.05 m (10 ft) radius.
  3. Is sound, dry, connections are tight, has no surface voids, projections or other conditions that may interfere with the Uninsulated Finish (UF) System installation or performance.



B. Prior to the installation of the Uninsulated Finish (UF) System, the architect or general contractor shall insure that all needed flashings and other waterproofing details have been completed, if such completion is required prior to the Uninsulated Finish (UF) application. Additionally, the Contractor shall ensure that:

1. Metal roof flashing has been installed in accordance with Asphalt Roofing Manufacturers Association (ARMA) Standards.
2. Openings are flashed as necessary to prevent water penetration.
3. Chimneys, Balconies, and Decks have been properly flashed.
4. Windows, Doors, etc. are installed and flashed per manufacturer's requirements.

C. Prior to the installation of the Uninsulated Finish (UF) System, the contractor shall notify the general contractor, and/or architect, and/or owner of all discrepancies.

### 3.02 PREPARATION

A. The Uninsulated Finish (UF) materials shall be protected by permanent or temporary means from inclement weather and other sources of damage prior to, during, and following application until completely dry.

B. Protect adjoining work and property during Uninsulated Finish (UF) installation.

C. The substrate shall be prepared as to be free of foreign materials, such as, oil, dust, dirt, form release agents, efflorescence, paint, wax, water repellents, moisture, frost and any other condition that inhibit adhesion.

### 3.03 INSTALLATION

A. The system shall be installed in accordance with the current Master Wall Inc. Uninsulated Finish (UF) System Application Instructions.

B. The overall minimum base coat thickness shall be sufficient to fully embed the mesh.

C. Sealant shall not be applied directly to textured finishes.

D. When installing the Uninsulated Finish (UF) System, adhere according to Master Wall Inc. and local requirements.

E. High impact meshes shall be installed as specified at ground level, high traffic areas and other areas exposed to or susceptible to impact damage.

### 3.04 FIELD QUALITY CONTROL

A. The contractor shall be responsible for the proper application of the Uninsulated Finish (UF) materials.

B. Master Wall Inc. assumes no responsibility for on-site inspections or application of its products.

C. If required, the contractor shall certify in writing the quality of work performed relative to the substrate system, details, installation procedures, workmanship and as to the specific products used.

D. If required, the sealant contractor shall certify in writing that the sealant application is in accordance with the sealant manufacturer's and Master Wall Inc.'s recommendations.



### 3.05 CLEANING

A. All excess Uninsulated Finish (UF) System materials shall be removed from the job site by the contractor in accordance with contract provisions and as required by applicable law.

B. All surrounding areas, where the Uninsulated Finish (UF) System has been installed, shall be left free of debris and foreign substances resulting from the contractor's work.

### 3.06 PROTECTION

A. The Uninsulated Finish (UF) System 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.