

# Project Submittal Package



Project:

Location:

Architect:

General Contractor:

Applicator:



## Master Wall Inc.®



[System Data Sheets](#)   [Product Data Sheets](#)   [Sample Warranty](#)

[Specifications](#)   [Details](#)   [Web Link \(click here\)](#)

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GA

31808

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# Stucco Renovation System

09 96 63

Direct Applied Exterior Finish System

### Features & Benefits

- Easily Applied
- Suitable for Interior or Exterior
- Class A Fire Rating

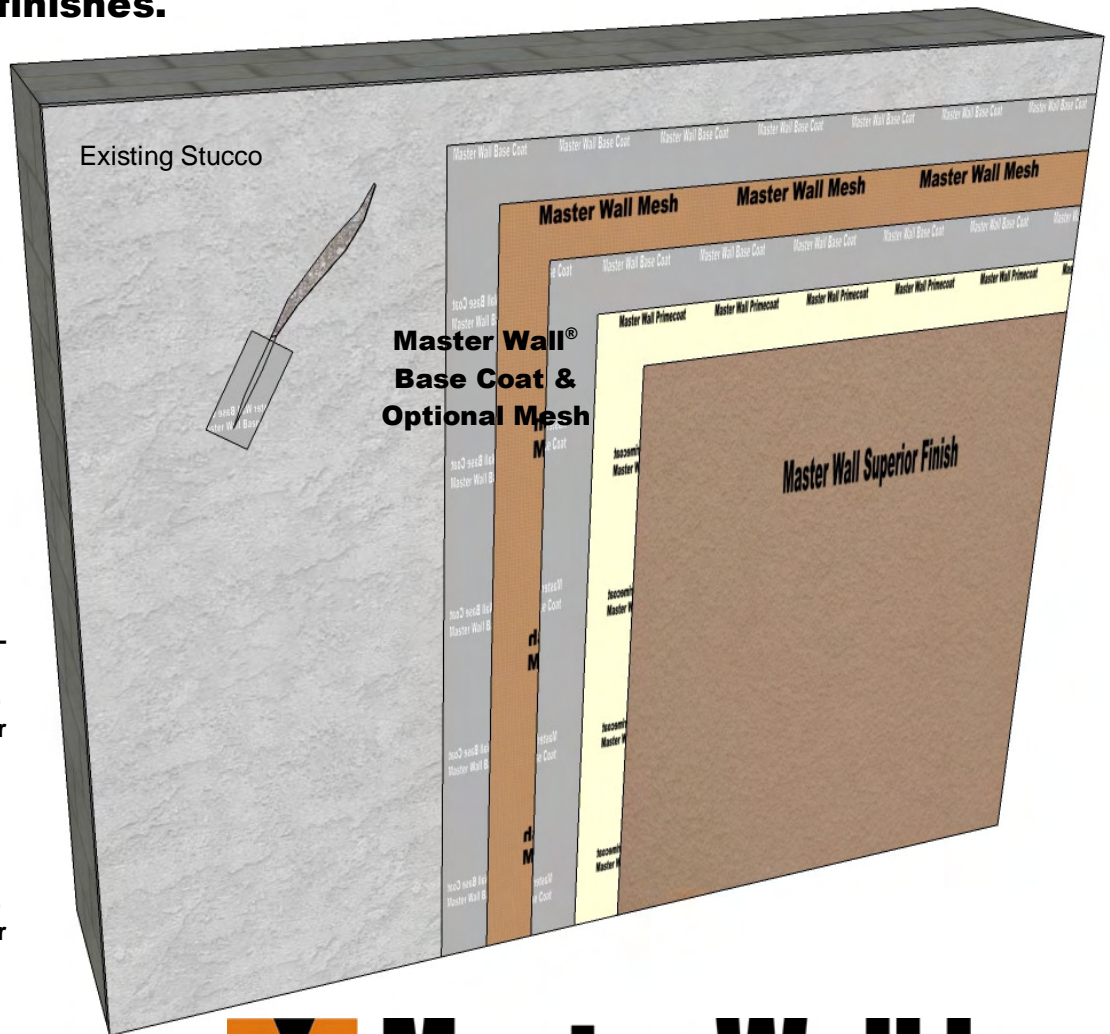
### System Use

- Commercial
- Residential

### Attachment Method

- Adhesive

**Master Wall Inc.® Stucco Renovation System (SR) renovates and protects existing stucco surfaces. Renovation methods vary and can include a leveling base coat, a waterproof base coat, reinforcing mesh to bridge cracking, Primecoat Primer and either our Superior, Superior Elastomeric Plus or specialty finishes.**



### Warranty Options

- Base Coat and Superior Finish: 5 years
- Base Coat, Mesh and Superior Finish: 6 years
- Base Coat, Mesh, Primecoat Primer and Superior Finish: 7 years
- WeatherStop Base Coat, Mesh, Primecoat Primer and Superior Finish: 8 years
- Base Coat, Mesh, Primecoat Primer and Superior Elastomeric Plus Finish: 9 years
- WeatherStop Base Coat, Mesh, Primecoat Primer and Superior Elastomeric Plus Finish: 10 years.



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# Stucco Renovation System

## Short Form Specification

### 1.0 General

This is a short form specification. Refer to Stucco Renovation specifications and details for additional information.

#### 1.1 System Description

The Master Wall Inc.® Stucco Renovation System consists of a leveling base coat, optional reinforcing mesh and a textured finish.

#### 1.2 Design Requirements:

- A. Reference architectural drawings for specific detail requirements.
- B. Slope all surfaces a minimum of 1:2 (6" in 12") to shed water, maximum 12" (305mm) wide.
- C. Maximum deflection of substrates shall not exceed L/360.
- D. Typical acceptable substrates include unpainted brick, masonry, concrete and Portland cement plaster (stucco). Contact Master Wall® for other approved substrates.
- E. Expansion joints are required at building expansion joints, panel joints and other areas where significant movement occurs.
- F. If used over retaining walls, the wall shall be waterproofed with drainage provisions.
- G. Protect wall surfaces with an appropriate leak proof cap.

#### 1.3 Quality Assurance

- A. The coatings shall be tested for: Accelerated weathering, mildew resistance, salt spray resistance and structural performance.
- B. The coatings shall have been tested for fire performance in accordance with ASTM E84.

#### 1.4 Job Conditions

- A. Store all materials protected from weather and direct sunlight at temperatures above 40°F (5°C).
- B. The ambient and wall temperature shall be a minimum of 40°F (5°C) and shall remain so for at least 24 hours after installation.

### 2.0 Products

All components of the Stucco Renovation System shall be manufactured by Master Wall and supplied by an authorized distributor.

#### A. Master Wall® Base Coats:

1. Foam & Mesh Adhesive (F&M), F&M Plus: A 100% pure acrylic-based adhesive that is field mixed with Portland cement.
2. Master Wall® Bagged Base (MBB), MBB Plus: A ready to use dry base that is field mixed with water.
3. WeatherStop: An acrylic-based weatherproof base coat product mixed one-to-one by weight with Portland cement designed for use with reinforcing mesh as the base coating over the substrate and insulation board.
4. Guardian: A waterproof 100% pure acrylic-based fiber reinforced adhesive that is field mixed with Portland cement.

B. Superior Finish: 100% pure acrylic formulation with integral color and texture. Perfect Swirl 2.0 (Perfect), Fine Sand 1.0 (Spray), Medium Sand 1.5 (Desert Sand), Versatex 0.5 (Refinish) textures.

C. Specialty Finishes: Specialty finish blends of natural and man-made decorative specialty finishes and accents.

#### D. Master Wall® Coatings:

1. Primecoat/Sanded Primecoat: A water-based primer.
2. Roller-flex: A water-based architectural finish coating.

### 3.0 Installation

A. Inspect the substrate to ensure that it is free of all foreign materials that would affect the adhesion of the Stucco Renovation System.

B. Apply the products in strict accordance with Master Wall® specifications, product data sheets, architectural drawings and architectural specifications.

**We finish strong.**

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## PRODUCT DATA

### F&M ADHESIVE AND BASE COAT

Foam & Mesh Adhesive (F&M) is a 100% acrylic formulated high performance base coat and adhesive used in Master Wall® Systems or over prepared substrates including brick, masonry, concrete and stucco.

### FEATURES & BENEFITS

- Adheres insulation board to approved substrates
- Base coat for Master Wall CIFS®, EIFS and other Systems
- Leveling coat for Cemplaster Fiberstucco and other stucco products
- Excellent water resistance
- Mixes 1:1 with Portland cement to a creamy consistency
- 100% Acrylic Polymers for durability
- Water-based - easy clean up with water

Application Temperature: 40°-110°F (5°-43°C)

Working Time: 1 hour

Set Time: Varies with temperature and humidity

Dry Time: 12 hours at room temperature, working and drying time will vary with temperature and humidity.

### JOB CONDITIONS

Air and substrate temperature for application of F&M must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

### PREPARATION

The substrate must be approved by Master Wall Inc.®, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are generally unacceptable without evaluation. Reference Technical Bulletins #173 and #187 for additional information.

### Coverage per pail (sf/sm)\*

Adhesive & Standard Base Coat:  
120 sf (11 sm)

Embedding Single-layer of Mesh:  
240-280 sf (22-26 sm)

Double Layer of Mesh:  
80-230 sf (7.5-21 sm)

Notched Trowel Adhesive Application:  
135 sf (12.5 sm)

*\*All coverage is approximate and depend upon substrate, details and individual application*

### Packaging/Shelf Life/Storage

Packaging: 5 gallon (19L) pail

Pail Weight: 60 lbs (27 kg)

Shelf Life: 2 years

Storage: Protect from extreme heat - 90°F (32°C) and above, freezing and direct sunlight.

### Technical Data

ASTM C297/E2134 - min 30 psi (208 kPa)

ASTM D897 - min 22 psi (152 kPa) ASTM  
D2247 - Pass

ASTM E84 - Pass

ASTM E96 - 12 perms

ASTM E331 - Pass to 12.0 psf (575 Pa)

ASTM E2485/EIMA 101.01\* - Pass NFPA  
268\* - Pass

NFPA 285 (UBC 26-9)\* - Pass

\*part of a larger assembly

## APPLICATION PROCEDURE

Mixing - Thoroughly stir F&M using a heavy duty 1/2" (12.7 mm) drill at 400 to 500 rpm and a heavy duty mixing paddle. Pour half of the stirred F&M into a clean plastic pail. Add Type I or I-II Portland cement to the half pail of F&M in a ratio of one-to-one by weight and mix to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Up to 30 ounces (0.9L) of clean, potable water may be added to a half pail to adjust workability. Do not over mix as faster setting or reduced working time can occur. Do not add accelerators or retarders to the F&M mixture.

## APPLICATION

**ADHESIVE APPLICATION** – Over gypsum or Rollershield coated substrates, apply the F&M mixture directly to the back of the insulation board using a 3/8" x 3/8" x 3/8" (9.5 x 9.5 x 9.5 mm) or a 3/8" x 1/2" x 1-1/2" (9.5 x 13 x 38 mm) stainless steel notched trowel. With the trowel at a 45-degree angle, cover the entire back of the insulation board with full beads of adhesive. Apply the adhesive so the ribbons run vertically when applied to the wall.

Over non-gypsum substrates where drainage is not required, you may use the above described notched trowel method or the 'ribbon and dab' method. Using a stainless steel plastering trowel, apply a 2" (50.8 mm) wide by 3/8" (9.5 mm) high ribbon of the F&M mixture around the entire perimeter of the insulation board. Place 8 dabs of the F&M mixture 3/8" (9.5 mm) thick by 4" (102 mm) in diameter approximately 8" (204 mm) on center inside the ribbon.

Immediately place the prepared insulation board on the substrate. Make sure that all edges of the insulation board are abutted tightly and that no F&M mixture gets into the board joints. Do not allow the F&M mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the F&M mixture directly onto the substrate.

**BASE COAT APPLICATION** – Over insulation board, all imperfections in the board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the F&M mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet F&M mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance with Master Wall® specifications. The color of the mesh shall not be visible, but a slight mesh pattern may be visible.

As a leveling coat over approved concrete, masonry, stucco, and other surfaces, apply the F&M mixture over the entire surface a nominal 1/16" (1.6 mm) thick. Where reinforcing mesh is specified, follow application methods for insulation board above.

**Hazard:** This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

**VOC:** Less than 50 g/L.

### Approved Substrates

Exterior gypsum sheathing  
(ASTM C1396, C1177)

Dens Glass Gold®  
GlasRoc®  
FiberBond®  
Gold Bond e2xp®  
Securock®  
Weather Defense Platinum™

Cement Board (ASTM C1325)  
Durock®  
PermaBase®  
Util-A-Crete®  
ProTEC®, ProGUARD®

Concrete  
Brick  
Masonry  
Metal Lath - Adhesive Application  
Adheres to Rollershield  
Others approved in writing

## CLEAN UP

Tools and equipment can be cleaned with soapy water while the F&M is still wet.

### WARNING, THIS PRODUCT CONTAINS SILICA

If sanding or scraping are performed, ventilate work area and/or use a NIOSH/MSHA-approved respirator in accordance with our Safety Data Sheet.

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## Health & Safety

### WARNING!

Causes eye and skin irritation.  
Precautionary Statement

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

### FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Store locked up. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulation.

**Spills:** Collect with suitable absorbent material such as cotton rags.

**Disposal:** Dispose of in accordance with local, state or federal regulations.

Warning: KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

Consult the Safety Data Sheet (SDS) in the Products section at [masterwall.com](http://masterwall.com) for further health and safety information.

### LIMITED WARRANTY

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## PRODUCT DATA

### MBB

Master Wall® Bagged Base Coat (MBB) is a dry polymer acrylic formulated high performance base coat and adhesive used in Master Wall® Systems or over prepared substrates including brick, masonry, concrete and stucco.

### FEATURES & BENEFITS

- Adheres insulation board to approved substrates
- Base coat for Master Wall CIFS®, EIFS and other Systems
- Leveling coat for Cemplaster Fiberstucco and other stucco products
- Excellent water resistance
- Freeze stable in dry form
- Convenient, mixes with water
- Easy clean up with water

Application Temperature: 40°-110°F (5°-43°C)

Working Time: 1 hour

Set Time: Varies with temperature and humidity

Dry Time: 12 hours at room temperature, working and drying time will vary with temperature and humidity.

### JOB CONDITIONS

Air and substrate temperature for application of MBB must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

### PREPARATION

The substrate must be approved by Master Wall Inc®., clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are generally unacceptable without evaluation. Reference Technical Bulletins #173 and #187 for additional information.

### Coverage per bag (sf/sm)\*

Adhesive & Standard Base Coat:

50-60 sf (4.6-5.36 sm)

Embedding Single-layer of Mesh:

100-125 sf (9-11.5 sm)

Double Layer of Mesh:

30-110 sf (2.5-10 sm)

Notched Trowel Adhesive Application:

56 sf (5.2 sm)

*\*All coverage is approximate and depend upon substrate, details and individual application*

### Packaging/Shelf Life/Storage

Packaging: 50lb (22.7kg) bag

Shelf Life: 1 year

Storage: Protect from weather, high humidity and direct sunlight.

### Technical Data

ASTM C297/E2134 - min 30 psi (208 kPa)

ASTM E96 - 12 perms

## APPLICATION PROCEDURE

Mixing - Add 5 to 6 quarts (4.7-5.7L) of potable water to a clean plastic pail. Add the MBB slowly while stirring using a heavy-duty 1/2" (12.7mm) drill at 400 to 500 rpm and a heavy-duty Mixer. Mix thoroughly to a homogenous consistency. Let the mixture stand for 3 to 5 minutes and then stir to a creamy consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Excessive stirring may cause faster setting and reduced working time. Do not add accelerators or retarders to the MBB mixture.

## APPLICATION

**ADHESIVE APPLICATION** – Over gypsum or Rollershield coated substrates, apply the MBB mixture directly to the back of the insulation board using a 3/8" x 3/8" x 3/8" (9.5 x 9.5 x 9.5 mm) or a 3/8" x 1/2" x 1-1/2" (9.5 x 13 x 38 mm) stainless steel notched trowel. With the trowel at a 45-degree angle, cover the entire back of the insulation board with full beads of adhesive. Apply the adhesive so the ribbons run vertically when applied to the wall.

Over non-gypsum substrates where drainage is not required, you may use the above described notched trowel method or the 'ribbon and dab' method. Using a stainless steel plastering trowel, apply a 2" (50.8 mm) wide by 3/8" (9.5 mm) high ribbon of the F&M mixture around the entire perimeter of the insulation board. Place 8 dabs of the F&M mixture 3/8" (9.5 mm) thick by 4" (102 mm) in diameter approximately 8" (204 mm) on center inside the ribbon.

Immediately place the prepared insulation board on the substrate. Make sure that all edges of the insulation board are abutted tightly and that no F&M mixture gets into the board joints. Do not allow the MBB mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the MBB mixture directly onto the substrate.

**BASE COAT APPLICATION** – Over insulation board, all imperfections in the board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the MBB mixture over the entire surface of the insulation board in a thickness greater than that of the reinforcing fabric being used (approximately 1/16" (1.6 mm) for standard mesh and 3/32" (2.4 mm) for Ultra Mesh). Immediately embed the reinforcing fabric into the wet MBB mixture and smooth from the center to the edge to avoid wrinkles. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance with Master Wall® specifications. The color of the mesh shall not be visible, but a slight mesh pattern may be visible.

As a leveling coat over approved concrete, masonry, stucco, and other surfaces, apply the MBB mixture over the entire surface a nominal 1/16" (1.6 mm) thick. Where reinforcing mesh is specified, follow application methods for insulation board above.

Hazard: This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

VOC: Less than 50 g/L.

### Approved Substrates

Exterior gypsum sheathing  
(ASTM C1396, C1177)

Dens Glass Gold®

GlasRoc®

FiberBond®

Gold Bond e2xp®

Securock®

Weather Defense Platinum™  
Cement Board (ASTM C1325)

Durock®

PermaBase®

Util-A-Crete®

ProTEC®, ProGUARD®

Concrete

Brick

Masonry

Metal Lath - Adhesive Application

Adheres to Rollershield

Others approved in writing

## CLEAN UP

Tools and equipment can be cleaned with soapy water while the MBB is still wet.

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## Health & Safety

### WARNING!

Causes eye and skin irritation.

Precautionary Statement

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**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Storage:** Store locked up. Dispose of contents/container in accordance with Local, State, Federal and Provincial regulation.

**Spills:** Collect with suitable absorbent material such as cotton rags.

**Disposal:** Dispose of in accordance with local, state or federal regulations.

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## PRODUCT DATA

### AGGRE-FLEX MESH

Master Wall® Aggre-flex Mesh is a specially woven, glass fiber mesh with AR Coating (Alkali Resistive). Embedded in Master Wall® base coats, Aggre-flex Mesh is the key impact and tensile component in Master Wall® EIFS and wall systems. It can also improve crack resistance in Master Wall® Cemplaster Fiberstucco Systems, traditional stucco or foam shapes.

### FEATURES & BENEFITS

- **Detail Mesh** – super soft, pliable mesh used for backwrapping, special shapes, and detail work.
- **Standard Mesh**–Standard weight mesh for wall areas and general detailing. Industry leading impact resistance.
- **Hi-Tech Mesh**–Upgraded heavier weight version of Standard Mesh with good workability.
- **Medium Mesh**–Extra tough heavy weight mesh. Best for areas of light traffic.
- **Strong Mesh**–Great high traffic mesh where impacts are a consideration.
- **Ultra Mesh**–Best where abuse is expected. Ultra heavy for high traffic areas.
  - **Strong Mesh and Ultra Mesh** must be used in a two-layer system.
- **Corner Roll**– For highly impact resistant corners. Apply under Standard or higher mesh.

### MESH WEIGHT AND COVERAGE

	Mesh Weight	Roll Size	Coverage*
Detail	4.5 oz/sy (113 g/sm)	9.5" x 150' (96.5cm x 45.7m)	119 sf (11 sm)
<b>Standard - 38</b>	4.6 oz/sy (156 g/sm)	38" x 150' (96.5cm x 45.7m)	475 sf (44.1 sm)
<b>Standard - 48</b>	4.6 oz/sy (156 g/sm)	48" x 150' (122 cm x 45.7m)	600 sf (55.7 sm)
Hi-Tech	6.0 oz/sy (202 g/sm)	48" x 150' (122cm x 45.7m)	600 sf (55.7sm)
Medium	11.0 oz/sy (370 g/sm)	38" x 75' (96.5cm x 22.8m)	238 sf (22.1 sm)
Strong	15.4 oz/sy (508 g/sm)	38" x 75' (96.5cm x 22.8m)	238 sf (22.1 sm)
Ultra	21.0 oz/sy (700 g/sm)	48" x 75' (122cm x 22.8m)	300 sf (22.1 sm)
Corner Roll	9.5 oz/sy (238 g/sm)	9.5" x 150' (96.5cm x 45.7m)	150 lf (45.7 m)

\*Allow about 10% waste for lapping all meshes (Strong, Ultra and Corner Roll Meshes are butted). Coverage will vary.

### PRODUCT TEST STANDARDS

ASTM D76, ASTM D578, ASTM D579, ASTM D1777, ASTM D3659, ASTM D3775, ASTM D3776, ASTM D4029, ASTM D5035, ASTM E2098, ASTM E2486. MIL-Y-1140

Weave: Full Leno

### Impact ASTM E2486 (Formerly EIMA 101.86)

### ASTM D5035 Tensile (warp/fill)

<i>Standard Mesh</i>	Medium Impact Resistance 50-89 in-lbs (5.7-10.1J)	247/280
<i>Hi Tech Mesh</i>	Medium Impact Resistance 50-89 in-lbs (5.7-10.1J)	140/250
<i>Medium Mesh</i>	Medium Impact Resistance 50-89 in-lbs (5.7-10.1J)	300/500
<i>Medium &amp; Standard</i>	High Impact Resistance 90-150 in-lbs (10.2-17.0J)	300/500
<i>Strong &amp; Standard</i>	Ultra High Impact Resistance 150+ in-lbs (over17.0J)	350/600
<i>Ultra &amp; Standard</i>	Ultra High Impact Resistance 150+ in-lbs (over17.0J)	750/500
<i>Corner Roll</i>		274/274

## APPLICATION PROCEDURE

Job Conditions - Air and substrate temperature for embedment of the Reinforcing Mesh must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection at all times until the wall system, including flashings, caps, and sealants, is completed to provide protection from climatic conditions and other potential damage.

Application - All imperfections in the insulation board must be rasped flush and any gaps in the insulation board must be filled with slivers of insulation. Apply the base coat over the entire surface of the insulation board in a thickness greater than that of the Reinforcing Mesh being used, approximately 1/16" (1.6 mm) for Standard Mesh and 3/32" (2.4 mm) for Ultra Mesh. Immediately embed the Aggre-flex Mesh into the wet base coat and smooth from the center to the edge to avoid wrinkles. Lap all meshes except Strong Mesh and Ultra Mesh a minimum of 2-1/2" (63.5 mm) on all sides. The reinforcing fabric must be continuous at all corners and lapped or abutted in accordance to Master Wall specifications. The color of the mesh shall not be visible but a slight mesh pattern may be visible. The overall minimum thickness of the base coat should be a nominal 1/16" (1.6 mm) when dry.

When applying Strong, Ultra or Corner Roll Mesh, tightly abut all edges and let cure for a minimum of 12 hours. Grind any imperfections with the edge of a stainless steel trowel or grinding stone, taking care not to damage the Aggre-flex Mesh, and apply a layer of Standard Mesh, Hi-Tech Mesh, or Medium Mesh as per the directions in the preceding paragraph. To minimize wall variations, the lap of the second mesh layer should not coincide with the abutment of the first layer.

### Special Conditions and Recommendations

Apply wrapping, backwrapping mesh or other approved accessory at all terminations of the insulation board. This includes at the top and bottom of all walls and at all openings.

Aggre-flex Mesh may be wrapped from the face of the insulation board onto a foundation or onto the studs of an opening on barrier wall systems. In all cases, the exposed edges of the insulation board must be wrapped with Aggre-flex Mesh and base coat or an approved accessory trim.



## Health & Safety

### WARNING!

Causes eye and skin irritation.  
Precautionary Statement  
Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

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## PRODUCT DATA

### PRIMECOAT PRIMER

High quality exterior acrylic primer that helps solidify and protect the surface. Integrally colored Primecoat Primer helps make finishes brighter and deeper, reduces efflorescence and extends finish coverage rates. Suitable for priming Master Wall® base coats, new stucco, masonry and concrete that has a pH of 13 or less.

#### FEATURES & BENEFITS

- Tintable sealer/primer with good hiding power
- Hot prime capable for pH 13 or less
- Reduces finish absorption for improved aesthetics and reduced finish color variations
- Recommended for extreme color changes, under very dark, vivid or bright topcoats or when top tier finishing is specified
- Extends finish coverage, required when spraying Superior Finishes and some specialty finishes
- 100% Acrylic Polymers for durability
- Water-based - easy clean up with water

Application Temperature: 40°-110°F (5°-43°C)

Dry to touch: 1 hour

Recoat Time: 2 hours

Dry Time: 12 hours at room temperature, working and drying time will vary with temperature and humidity.

#### JOB CONDITIONS

Air and substrate temperature for application of Primecoat must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. Working and drying times are based upon normal room temperature conditions and will vary with temperature and humidity.

#### PREPARATION

The substrate must be approved by Master Wall Inc.®, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Concrete and masonry should be cured a minimum of 28 days, stucco cured a minimum of 7-14 days or surfaces verified to have a pH less than 13.

#### Coverage per pail (sf/sm)\*

1000-1200 sf/pail (93-112 sm)\*

*\*All coverage is approximate and depend upon substrate, details and individual application*

#### Packaging/Shelf Life/Storage

Packaging: 5 gallon (19L) pail Pail

Shelf Life: 2 years

Storage: Protect from extreme heat - 90°F (32°C), freezing and direct sunlight.

#### Technical Data

Water Vapor Transmission (perms), ASTM E96 Vapor Permeable

#### Substrate Recommendations

Concrete – If preparing for a textured or specialty finish, all projections must be removed and any voids filled with a Master Wall® base coat as needed to provide an appropriate surface.

Masonry – If preparing for a textured or specialty finish, skim coat with a Master Wall® base coat to achieve a smooth level surface. If joints are not struck flush, multiple coats may be required. Contact Master Wall for more information.

Stucco – If additives were used in the stucco, it is recommended that a test patch be made to evaluate bond strength of the Primecoat to the stucco.

Master Wall® Base Coats or Finishes, Previously Painted Surfaces, Cement Composition Siding

Install/Apply and prepare according to published guidelines. Surfaces should be clean, dry, cured and ready to receive coatings.

## APPLICATION PROCEDURE

*Mixing* - Thoroughly stir Primecoat into a homogeneous consistency. Small amounts of clean, potable water may be added to obtain a workable consistency. Do not over mix. Do not exceed 24 ounces (0.7L) of water per pail. Do not add accelerators or retarders to Primecoat.

*Application* - Primecoat can be applied by brush, roller, or airless spray equipment. When using a roller, a maximum 3/4" (19 mm) nap is recommended. Apply Primecoat in an even, continuous coat of about 3 mils, maintaining a wet edge.

*Airless Spray Application* - Pressure 2000 p.s.i., Tip .015- to .019 inch. Spray in a consistent manner or backroll after spraying for a consistent application.

*Limitations* - Primecoat is not intended for use as the final finish coat over Master Wall base coats or other approved substrates.

## FOR PROFESSIONAL RESULTS

Apply coatings away from direct sunlight. Cold joints or color variations can occur if the finish dries too quickly. Under certain conditions dark colors may show efflorescence on the surface during the cure process.

Surfaces exposed to the weather must be sloped (6:12 minimum). Use of dark colors in high temperature climates can affect the performance of the system, especially EIFS and areas may need to be limited.

## CLEAN UP

Tools and equipment can be cleaned with soapy water when Primecoat is wet.

**Hazard:** This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

**VOC:** Less than 50 g/L.

### Approved Substrates

Master Wall® Base Coats  
Stucco  
Brick  
Masonry  
Concrete  
Interior Drywall  
Previously painted surfaces with bond test  
Others approved in writing

**Warning:** KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

Consult the Safety Data Sheet (SDS) in the Products section at [masterwall.com](http://masterwall.com) for further health and safety information.

### LIMITED WARRANTY

This product is subject to a written limited material or system warranty. Obtain a warranty from the Tech Support tab of our website. Refer to Specifications for more complete information on proper use and handling of this product.

Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of Master Wall Inc.® products and is presented in good faith. Master Wall Inc.® assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents, such as specifications and details. Contact Master Wall Inc.® for the most current product information. ©2022 Master Wall Inc.®



**Master Wall Inc.®**  
Building a Culture of Excellence

## PRODUCT DATA

### SUPERIOR FINISHES

To finish strong you need a Superior Finish. Master Wall® finishes are crafted with one of the highest 100% acrylic polymer contents in our industry. This translates to extra durability, lower life-cycle maintenance and a longer lasting finish.

### FEATURES & BENEFITS

- 100% Acrylic Polymers for durability
- Dirt Pickup Resistant (DPR) Polymer Formulation
- Quartz or Marble aggregate available
- 64 Standard Colors
- Custom color matching available
- DuroTone colorfast pigments, Excel mildew enhancement, Silicone Coat additive available
- Vapor Permeable - resists blistering and allows trapped water vapors to pass
- Low VOC—Suitable for Interior Use
- Water Based - easy clean up with water

Application Temperature: 40°-110°F (5°-43°C)

Working Time: 1/4 hr

Set Time: 8-12 hrs

Dry Time: 48-72 hrs at room temperature, working and drying time will vary with temperature and humidity.

### JOB CONDITIONS

Air and substrate temperature for application of Superior Finishes must be 40°F (5°C) or higher and must remain 40°F (5°C) or higher for a minimum of 24 hours. Provide temporary protection to protect the wall system from damage until permanent flashings, caps and sealants are installed. Store materials within prescribed temperature limits and out of direct sunlight. High temperatures will reduce working times, Low temperatures and/or high humidity and pigment loading will extend working, set and dry times.

### PREPARATION

The substrate must be approved by Master Wall Inc.®, clean, dry, structurally sound and free of efflorescence, oil, grease, form release agents and curing compounds or anything that would affect bond. Painted surfaces are not acceptable and must be removed. Concrete and surfaces should cure for a minimum of 28 days. Stucco should be cured until clean, dry and hard—typically 14 days with a pH of 10 or less (13 or less if Primecoat Primer is used).

Interior drywall should be finished and made ready for paint. Prime surfaces with Primecoat/Sanded Primecoat primer prior to finishing.

### Coverage per pail (sf/sm)\*

- Perfect Swirl 2.0, 120-150 (11-14)
- Fine Sand 1.0, 160-170 (15-15.8)
- Medium Sand 1.5, 130-150 (12-14)
- Versatex 0.5, Varies with Texture

*\*All coverage is approximate and depend upon substrate, details and individual application*

### Packaging/Shelf Life/Storage Packaging:

- 5 gallon (19L) pail Pail

Shelf Life: 2 years

Storage: Protect from extreme heat (90°F, 32°C), freezing and direct sunlight.

### Technical Data

ASTM B117 Salt Spray Resistance - Pass ASTM

C67 Freeze/Thaw - Pass

ASTM C297 Tensile Bond - 30 psi minimum

ASTM D968 Abrasion Resistance - Pass 500L

ASTM D2247/E2570 Water Resistance - Pass

ASTM D3273 Mildew Resistance - Pass 28 Days

ASTM E84 Surface Burning - Pass, FS=0, SD=0

ASTM E 96 Vapor Permeability - Pass, 12 perms, vapor open

ASTM E108 Flame Propagation - Pass

ASTM E2485/2570 (formerly EIMA 101.01)

Impact Resistance - Pass

ASTM G23/G154/G155 Accelerated Weathering - Pass 2000 Hours

ASTM G53 Accelerated Weathering - Pass 2000 Hours

## APPLICATION PROCEDURE

Base Coats - Must be flat, dry hard, and free of efflorescence. Master Wall® base coats must cure a minimum of 12 hours before application of Superior Finish. Substrates of brick, masonry or concrete should be leveled smooth using either Master Wall® base coats or stucco.

Mixing - Thoroughly stir Superior Finish using a heavy duty 1/2" drill at 400 - 500 rpm and a heavy duty mixing paddle. Small amounts of clean, potable water may be added to obtain a workable consistency. To avoid color variations, add the same amount of water to each pail. Do not exceed 24 ounces (0.7L) of water per pail of finish.

Application - Apply a uniform thickness (about 1/16", 1.6 mm) of Superior Finish to the substrate using a stainless steel trowel. Spread evenly and then scrape the finish coat down to a thickness no greater than the largest aggregate in the material. Immediately float the finish coat using a plastic float to the desired texture. Always maintain a wet edge to achieve uniformity of texture and color. Allow the finish to fully dry and set before exposure to inclement weather.

## FOR PROFESSIONAL RESULTS

Apply finish coats away from direct sunlight. Cold joints or color variations can occur if the finish dries too quickly. Priming stucco surfaces with Primecoat/Sanded Primecoat evens out finish absorption and should be strongly considered and specified for dark colored finishes, especially those using Ultra Deep Base (UDB) tint base and over stucco to avoid efflorescence blush. Under certain conditions dark colors may show efflorescence on the surface during the cure process.

Surfaces exposed to the weather must be sloped (6:12 minimum). Use of dark colors in high temperature climates can affect the performance of the system, especially EIFS and areas may need to be limited.

Deep, intense colors should be specified with DuroTone pigments to maintain colorfastness longer. Verify specialty colors with your Master Wall® Distributor. Finishes are intended for the approved substrates listed above and should not be applied directly to gypsum board or insulation board products.

## CLEAN UP

Tools and equipment can be cleaned with soapy water while the Superior Finish is still wet.

**Hazard:** This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

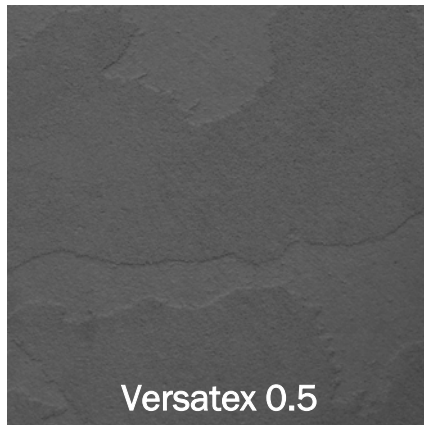
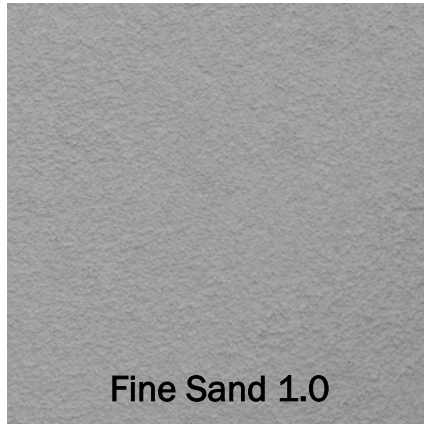
**VOC:** Less than 50 g/L.

See Superior Finishes for other technical properties

### Approved Substrates

Master Wall® Base Coats  
Cemplaster Fiberstucco, One Coat Stucco (OCS), Primecoat Primer surfaces, ASTM C926 Stucco

Prepared & Base Coated Surfaces of:  
Brick, Concrete, Masonry  
Others approved in writing



Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of Master Wall Inc.® products and is presented in good faith. Master Wall Inc.® assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents, such as specifications and details. Contact Master Wall Inc.® for the most current product information. ©2022 Master Wall Inc.®



**Health & Safety**

**WARNING!**

Causes eye and skin irritation.  
 Precautionary Statement  
 Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**FIRST AID MEASURES**

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Store locked up.** Dispose of contents/container in accordance with Local, State, Federal and Provincial regulation.

**Spills:** Collect with suitable absorbent material such as cotton rags.

**Disposal:** Dispose of in accordance with local, state or federal regulations.

**Warning:** KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

Consult the Safety Data Sheet (SDS) in the Products section at masterwall.com for further health and safety information.

**LIMITED WARRANTY**

This product is subject to a written limited material or system warranty. Obtain a warranty from the Tech Support tab of our website. Refer to Specifications for more complete information on proper use and handling of this product.



# Master Wall, Inc

**Building a Culture of Excellence**

## Master Wall Stucco Renovation Products

**Base Coat and Superior Finish: 5 years**

**Base Coat, Mesh and Superior Finish: 6 years**

**Base Coat, Mesh, Primecoat and Superior Finish: 7 years**

**WeatherStop Base Coat, Mesh, Primecoat and Superior Finish: 8 years**

**Base Coat, Mesh, Primecoat and Superior Elastomeric Plus Finish: 9 years**

**WeatherStop Base Coat, Mesh, Primecoat and Superior Elastomeric Plus Finish: 10 years**

Master Wall Inc. warrants the properly designed and installed Master Wall Inc. materials for the term note above from the date of installation. Master Wall Inc.'s exclusive liability under this warranty is to supply replacement materials and labor or corrective procedures, if it is shown that the materials supplied by Master Wall Inc., were defective when installed by the Master Wall Inc. certified applicator. Remedies shall be solely determined by Master Wall Inc. and no other warranties are expressed or implied. For a valid warranty, the system and products must be installed in accordance with Master Wall Inc.'s written recommendations, specifications, details, bulletins and other project-specific written recommendations. Master Wall Inc. must be notified in writing within 10 business days of the original discovery of the defect.

Master Wall Inc., is not responsible for structural conditions, design conditions beyond those noted in our literature, architecture, engineering or workmanship of any project. Stucco and direct-applied coatings/systems may have hairline cracks, spalling, fastener popping or efflorescence, which are not considered product defects. Drainage Systems are warranted to drain incidental water for the warranty period. Materials must be properly stored and applied in a timely manner. Workmanship, aesthetics and installation are beyond the scope of this warranty as are any deviations from Master Wall Inc. Documents not specifically approved in writing.

Abuse, misuse, excessive weather or environmental conditions beyond what the products or systems have been tested, designed or approved for is expressly limited. Certain colors with organic pigments are less fade-resistant than others. The building, system and products must be properly maintained in accordance with Master Wall Inc., documents, local environmental conditions and good building practices. In no case is Master Wall Inc. responsible for incidental and consequential damages.

**This warranty becomes effective only when all bills for the components of the system have been paid.**

**Except as stated, Master Wall, Inc., expressly disclaims any warranty of merchantability or fitness for a particular purpose. The above remedies are to be deemed exclusive.**

Project: Sample  
This is not the final warranty.  
Applicator: For a valid warranty click on the  
supprt tab at [masterwall.com](http://masterwall.com).  
Warranty Date: Warranties not valid until issued.



# Stucco Renovation Coatings Section 09 96 63



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## Master Wall Guide Specification SR Stucco Renovation Coatings

### **PART I – GENERAL**

#### **1.01 SUMMARY**

- A. This document is to be used in preparing specifications for projects utilizing the Master Wall Inc.® Coatings applied over an existing stucco surface. Related Master Wall Inc.® documents:
1. Master Wall Inc.® Stucco Renovation Coatings System Data Sheet
  2. Master Wall Inc.® Stucco Renovation Coatings System Application Instructions
  3. Master Wall Inc.® Stucco Renovation Coatings System Installation Details
  4. Master Wall product data sheets
- B. Related Sections
1. Sealant – Section 07900
  2. Flashing – Section 07600

#### **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 B117 (Federal Test Standard 141A Method 6061) Standard Practice for Operating Salt Spray (Fog) Apparatus
  - ASTM C150 Standard Specification for Portland Cement
  - ASTM C297 Standard Test Method for Flatwise Tensile Strength of Sandwich Constructions
  - ASTM C578 Specification for Preformed Cellular Polystyrene Thermal Insulation
  - ASTM D968 (Federal Test Standard 141A Method 6191) Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive
  - ASTM D2247 (Federal Test Standard 141A Method 6201) Standard Practice for Testing Water Resistance of Coatings in 100% Relative Humidity
  - ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
  - ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
  - ASTM E96 Test Methods for Water Vapor Transmission of Materials



## Stucco Renovation Coatings Section 09 96 63

- ASTM E2098 Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish System after exposure to Sodium-Hydroxide Solution
- ASTM E2485 (formerly EIMA Std. 101.01) Standard Test Method for Freeze-Thaw Resistance of Exterior Insulation and Finish Systems and Water-Resistive Barrier Coatings
- ASTM E2486 (formerly EIMA Std. 101.86) Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems
- ASTM G23 Standard Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) with and without Water for Exposure of Nonmetallic Materials
- ASTM G53 Practice for Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

### B. Other Referenced Documents

- American Association of Textile Chemists and Colorists AATCC-127 Water Resistance: Hydrostatic Pressure Test
- APA Engineered Wood Association E30, Engineered Wood Construction Guide

### 1.04 SYSTEM DESCRIPTION

- A. General: Master Wall Inc.® Stucco Renovation Coatings applied over approved substrates consisting of a base coat, optional reinforcing mesh, optional primer and finish. The products are applied over a clean, dry and hard stucco substrate. Reference painted surfaces technical bulletin if applicable.
- B. Methods of Installation
  - 1. Field Applied: The Stucco Renovation Coatings System is applied to the substrate system in place.
- C. Design Requirements
  - 1. Substrates
    - a. The maximum deflection under full flexural design loads of the substrate system shall not exceed L/360.
    - b. Stucco Renovation System shall be designed for their intended use by the design professional.
    - c. Approved substrates include cured, unpainted and clean surfaces of stucco.
    - d. The project architect or engineer shall engineer the system 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 substrate 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. Expansion Joints
    - a. Design and location of expansion joints in the Stucco Renovation Coatings System is the responsibility of the project designer and shall be noted on the project drawings. As a minimum, expansion joints shall be placed at the following locations:
      - 1) Where expansion joints occur in the substrate system.
      - 2) Where building expansion joints occur.
      - 3) Where the Stucco Renovation Coating System abuts dissimilar materials.
      - 4) Where the substrate type changes
      - 5) Where prefabricated panels abut one another
      - 6) Where significant structural movement occurs such as changes in roofline, building shape or structural system.



# Stucco Renovation Coatings

## Section 09 96 63

### 5. Terminations

- a. Interior foam expanding foam sealant may be required behind penetration openings.
  - b. The Stucco Renovation Coatings System shall be held back from adjoining materials around openings and penetrations where needed such as windows, doors and mechanical equipment for sealant application in accordance with the system details. Sealant joints shall be properly sized and designed for their anticipated movement (Reference Master Wall Inc.® Technical Bulletins #148 & 149).
  - c. The system shall be terminated a minimum of 152 mm (6 in) above finished grade or approval shall be sought from the local jurisdictional building authority for any variations.
  - d. Sealants
    - 1) Shall be manufactured and supplied by others.
    - 2) Shall be compatible with Stucco Renovation Coatings System materials. Refer to current Master Wall Inc.® Technical Bulletin #131 for listing of sealants approved by sealant manufacturer for use with stucco systems.
    - 3) The sealant backer rod shall be of closed cell.
6. 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.
7. 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 system. Primecoat Primer suggested for overly light or dark colors.
8. 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 Stucco Renovation Coatings and wall system.

### 1.05 PERFORMANCE REQUIREMENTS

A. Stucco Renovation Coatings System shall have been tested as follows:

#### Weather Resistance and Durability Performance\*

TEST	METHOD	CRITERIA	RESULTS
1. Accelerated Weathering	ASTM G 153 (Formerly ASTM G 23)	No deleterious effects at 2000 hours when viewed under 5x magnification	Pass
2. Accelerated Weathering	ASTM G 154 (Formerly ASTM G 53)	No deleterious effects at 2000 hours	Pass
3. Freeze/Thaw Resistance	ASTM E 2485	No deleterious effects at 10 cycles when viewed under 5x magnification	Pass
4. Water Penetration	ASTM E 331 (modified per ICC-ES AC 235)	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	Pass at 2.86 psf (137 Pa), 6.24 psf (299 Pa), and 12.0 psf (575 Pa) consecutively
5. Water Resistance	ASTM D 2247	No deleterious effects at 14 day exposure	Pass @ 28 days
6. Salt Spray	ASTM B 117	No deleterious effects* at 300 hours	Pass @ 300 hrs
7. Abrasion Resistance	ASTM D 968	No cracking or loss of film integrity at 528 quarts (500 L) of sand	Pass
8. Mildew Resistance	ASTM D 3273	No growth supported during 28 day exposure period	Pass



# Stucco Renovation Coatings

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### Fire Performance

TEST	METHOD	CRITERIA	RESULT
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

### Component Performance

TEST	METHOD	CRITERIA	RESULT
1. Alkali Resistance of Reinforcing Mesh	ASTM E2098 (formerly EIMA 105.01)	Greater than 120 pli (21 dN/cm) retained tensile strength	Pass

## 1.06 QUALITY ASSURANCE

### A. Qualifications

1. System Manufacturer: Shall be Master Wall Inc.®. 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.® Stucco Renovation 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.



# Stucco Renovation Coatings

## Section 09 96 63

### 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 Stucco Renovation Coatings System shall be protected during installation and while curing from weather and shall be protected from site damage.
- E. Coordinate installation of the Stucco Renovation Coatings System 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 Stucco Renovation Coatings System shall be coordinated with other construction trades.
- B. Sufficient manpower and equipment shall be employed to ensure a continuous operation, free of cold joints, scaffold lines, texture variations, etc.

### 1.10 LIMITED MATERIALS WARRANTY

- A. Provide a manufacturer's limited warranty against defective material upon request. Warranty shall be as follows: Base Coat and Superior Finish: 5 years; Base Coat, Mesh and Superior Finish: 6 years; Base Coat, Mesh, Primecoat Primer and Superior Finish: 7 years; WeatherStop Base Coat, Mesh, Primecoat Primer and Superior Finish: 8 years; Base Coat, Mesh, Primecoat Primer and Superior Elastomeric Plus Finish: 9 years; WeatherStop Base Coat, Mesh, Primecoat Primer and Superior Elastomeric Plus Finish: 10 years.

### 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 Stucco Renovation Coatings System 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. Portland Cement: Shall be Type I or II, meeting ASTM C 150, white or gray in color, fresh and free of lumps.
- B. Water: Shall be potable, clean and free of foreign matter.
- C. Metal Flashing Components: Complying with SMACNA Recommendations. Reference Section 07620.
- D. Sealant Systems: Reference Sealant Specification, Section 07900.
- E. Window & Door Systems: Detailed by the designer and suitable for the regional application. Reference Section 08000.



# Stucco Renovation Coatings

## Section 09 96 63

### 2.03 COMPONENTS

(Typical Application/**Optional Component**)

#### A. **Reinforcing Mesh**

Open weave glass fiber fabric, treated for alkaline resistance and compatibility with Master Wall Base Coats, and conforming ASTM D-76, D-579, D-5035, MIL-Y-1140 and meeting a minimum Medium Impact Resistance (50-89 in-lbs) when tested to EIMA 101.86 Impact Resistance Standards.

1. Detail Mesh
2. Standard Mesh

#### B. **Base Coats**

1. Master Wall Inc.® Foam & Mesh (F&M) Adhesive: An acrylic-based product mixed one-to-one by weight with Portland cement for use with reinforcing mesh as the base coating over the SR and insulation board.
2. Master Wall Bagged Base Coat (MBB): A polymer based cementitious product mixed with 5 to 6 quarts of water for use with reinforcing mesh as the base coating over the substrate and insulation board.
3. F&M Plus: An acrylic-based high build product mixed one-to-one by weight with Portland cement designed for use with reinforcing mesh as the base coating over the substrate and insulation board. (This product shall be used where indicated on the construction drawings when a leveling base coat is required.)
4. WeatherStop: An acrylic-based weatherproof base coat product mixed one-to-one by weight with Portland cement designed for use with reinforcing mesh as the base coating over the substrate and insulation board. (This product shall be used where indicated on the construction drawings when a leveling base coat is required.)
5. Expanded Polystyrene Base (EPSB): a 100% pure acrylic polymer based noncementitious base coat.

#### C. **Water Resistant Adhesive & Base Coat**

1. Guardian – An acrylic-based product mixed one-to-one by weight with Portland cement for use as the adhesive to bond insulation board to an approved substrate and/or as a base coat with reinforcing mesh over the SR and insulation board. (This product should be used as designated on the construction drawings where additional resistance to moisture is needed.)

#### D. **Primer** – Especially useful under especially light or dark colors

1. Primecoat Primer - Acrylic-based tintable primer
2. Sanded Primecoat Primer - Acrylic-based tintable primer with sand

#### E. 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

#### F. **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.

#### G. **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



# Stucco Renovation Coatings

## Section 09 96 63

### H. ~~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. Foam & Mesh (F&M) Adhesive: Mix F&M at a weight ratio of 1 to 1 with Portland Type I or I/II, white or grey cement. Mix using a ½", 400-500 RPM drill motor and Wind-lock B-MTW Mixer or equivalent. Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.
- B. Master Wall Bagged Base Coat (MBB): Add 5 to 6 quarts of water with the 50-lb. bag in a clean bucket for mixing. Mix the MBB with a Wind-lock B-MTW Mixer or equivalent using a ½", 400-500 RPM drill motor. Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.
- C. F&M Plus: Mix F&M Plus at a weight ratio of 1 to 1 with Portland Type I or I/II, white or grey cement. Mix using a ½", 400-500 RPM drill motor and Wind-lock B-MTW Mixer or equivalent. . Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.
- D. Guardian: Mix Guardian at a weight ratio of 1 to 1 with Portland Type I or I/II, white or grey cement. Mix using a ½", 400-500 RPM drill motor and Wind-lock B-MTW Mixer or equivalent. . Let stand for 3-5 minutes and remix until the desired consistency is achieved. Small amounts of clean water can be added for workability. Do not over mix.
- E. 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.)
- F. 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. 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. 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.



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### 3.04 INSTALLATION, GENERAL

- A. Comply with the manufacturers' current published instructions, (specifications, details, data sheets and technical bulletins) for the installation of the Stucco Renovation Coatings.
- B. Comply with local building codes.

### 3.05 BACKWRAPPING – FOAM SHAPES

- A. Adhesively secure reinforcing detail or standard mesh to the substrate positioned so that a minimum of 2 ½" (64 mm) of the mesh is onto the substrate. (The reinforcing mesh shall be wide enough to encapsulate the edge of the insulation board and cover both the substrate and the face of the insulation board a minimum of 2 ½" (64 mm).
- B. After the insulation board is applied, complete the backwrapping procedure by applying the base coat, embedding the remaining mesh and returning it onto the face of the insulation board.
- C. Where sealants are applied the reinforcing mesh color shall not be visible and the texture of the base coat shall be smooth so that the pattern of the mesh is covered.
- D. Apply finish in accordance with manufacturer's details. (Finish shall not be applied to areas where the design professional has anticipated dynamic movement or at an EIFS to EIFS joint.)

### 3.06 APPLICATION – FOAM SHAPES

- A. Adhesive Method
  - 1. Approved substrates for adhesive application:
    - 1) Foam trim insulation board meeting ASTM C578, Type 1 with a density of 1 pcf or greater.
  - 2. Notched Trowel Method - Foam & Mesh (F& M) Adhesive, Master Wall Bagged Base Coat (MBB), F&M Plus shall be applied to the entire surface of one face of the approved insulation board with a 3/8" deep x 3/8" wide x 3/4" o.c. (9.5x9.5x19 mm) spacing square notched trowel. Run notches vertically.
  - 3. Do not apply the adhesive directly to the substrate.
  - 4. Do not adhere the edges of the insulation board to each other.
  - 5. Apply the approved insulation board over a dry substrate with the long edge oriented horizontally.
  - 6. The application of the insulation board shall commence at the base of the wall from a level line of support.
  - 7. After the adhesive has been applied to insulation board it shall be installed by sliding it into place until it abuts adjoining insulation board.
  - 8. Uniform pressure shall be applied over the entire surface of the insulation board to achieve contact with the substrate. Periodically check the contact of the adhesive to the substrate by removing a piece of insulation board. Proper adhesive contact should be demonstrated by the evidence of similar amounts of adhesive adhered to both the insulation board and the substrate. The cohesive break should occur when the board is removed. If the cohesive break had occurred prior to the adhesive set the substrate is more than likely out of plane and should be corrected to meet minimum standards of this specification. If a cohesive failure does not occur contact a Master Wall representative.
  - 9. The insulation board shall be installed in a running bond pattern with staggered vertical joints.
  - 10. Insulation boards shall be interlocked at the inside and outside corners.
  - 11. Insulation board joints shall be offset from the sheathing joints a minimum of 6" (152 mm).
  - 12. Insulation board joints shall be offset from the corners of openings.
  - 13. Allow for proper spacing at windows, doors, penetrations and other openings so that sealant systems can be installed in accordance with Master Wall Inc.'s specification, details and the construction documents.
  - 14. Provide a proper joint through insulation board where expansion joints occur in substrates and where required in the system.
  - 15. The insulation board shall be butted tightly. Any gaps greater than 1/16" (1.6 mm) between insulation boards shall be filled with slivers of insulation board. Adhesive shall not be used to adhere foam when filling gaps.
  - 16. Gaps between insulation boards shall not be filled with adhesive or base coat materials.
  - 17. Allow adhered insulation to remain undisturbed for a period of 12 hours prior to rasping.
  - 18. Rasp the entire surface of the insulation board to level any irregularities, surface deterioration and to roughen the surface of the insulation board. All irregularities greater than 1/16" (1.6 mm) shall be sanded flat.



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19. Cut aesthetic joints as indicated on construction drawings. Always maintain a minimum  $\frac{3}{4}$ " (19 mm) of insulation board under aesthetic joints.
20. Clean rasped insulation board in preparation for base coat application.

### 3.07 BASE COAT PREPARATION

- A. Inspect adhered insulation board to ensure the installation meets the requirements set forth in Master Wall Inc.'s specification, details, data sheets, technical bulletins and the construction documents. Make necessary repairs to ensure the installation meets the requirements prior to commencement of the base coat application.
- B. Complete the backwrapping at all system terminations by embedding the reinforcing mesh as described in section 3.05 of this specification.

### 3.08 BASE COAT APPLICATION

- A. Apply the base coat to the entire surface of the substrate to the thickness required for the specified reinforcing mesh to be applied in a given area or for leveling.
  1. Standard and Detail Mesh requires a nominal  $\frac{1}{16}$ " (1.6 mm).
- B. Immediately embed Master Wall Inc. reinforcing mesh into wet base coat with a trowel, working from the center toward the edges, until the mesh is fully covered and a smooth surface is achieved. The color of the mesh shall not be visible but a slight mesh pattern may be visible.
- C. Lap mesh  $2\frac{1}{2}$ " (64 mm) minimum on all sides. (Do not lap Strong or Ultra mesh.)
- D. Reinforcing Mesh shall be continuous through all interior and exterior corners extending beyond the corner a minimum of 12" (305 mm) from both directions creating a minimum of two layers of standard reinforcing mesh on all interior and exterior corners.
- E. Foam shapes shall have reinforcing mesh embedded into the base coat.
- F. Allow the base coat to cure a minimum of 12 hours prior to additional base coat or finish coat applications.

### 3.09 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. 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. 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.
  4. 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  $\frac{3}{32}$ " to  $\frac{1}{8}$ " (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.)
  5. 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  $90^{\circ}$  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.
  6. Specialty Finishes: Follow individual product data sheet application instructions.

### 3.10 JOB SITE CLEANUP



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- 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).

### 3.11 PROTECTION

- A. Stucco Renovation Coating 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.®



**Master Wall® Systems**  
**Conceptual Detail**

PO Box 397

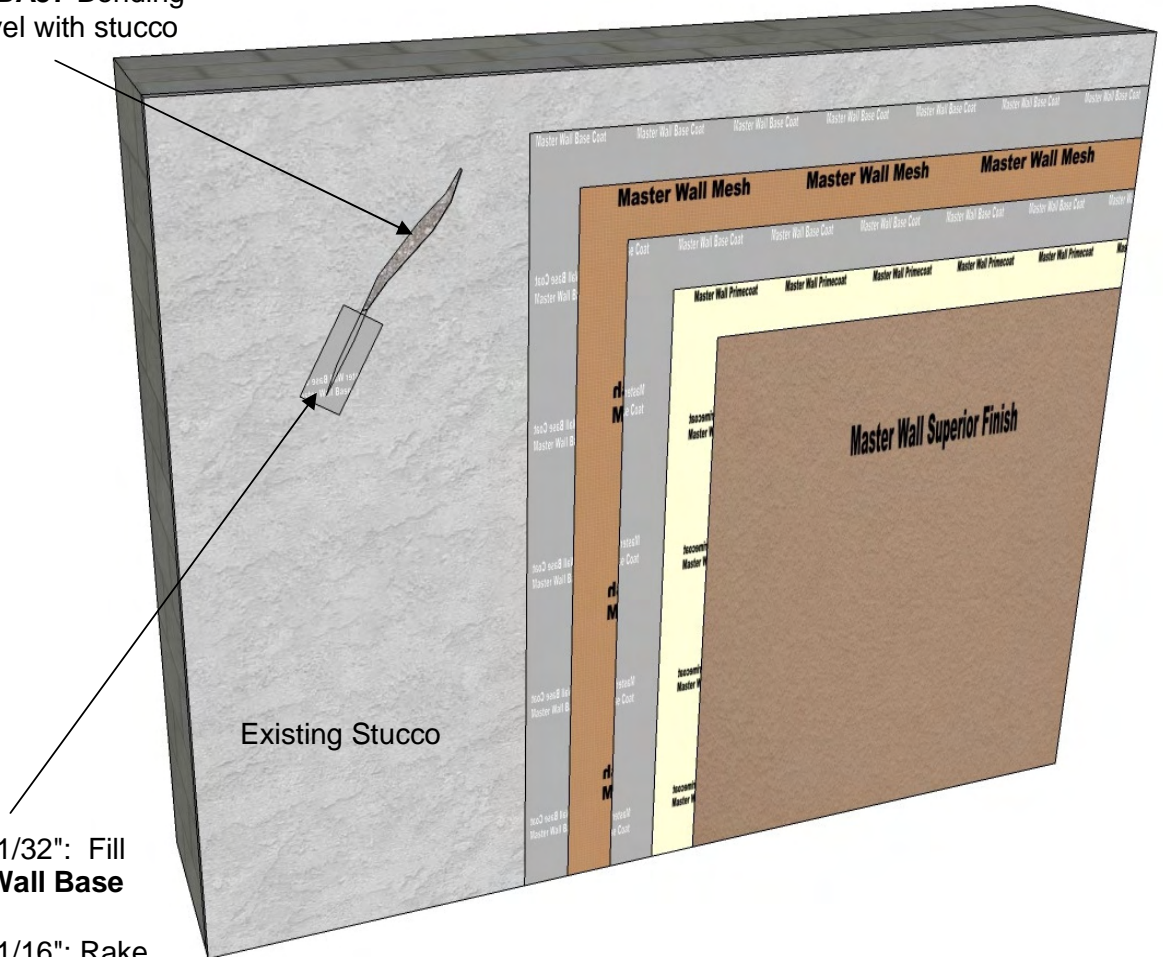
Fortson, GA 31808

800-755-0825

Technical 800-760-2861

**Patch Repair:**

- Small Patch: Level with **Master Wall Base Coat**
- Large Patch: Clean and remove all loose stucco, apply **Master Wall BA57 Bonding Agent** and level with stucco



**Crack Repair:**

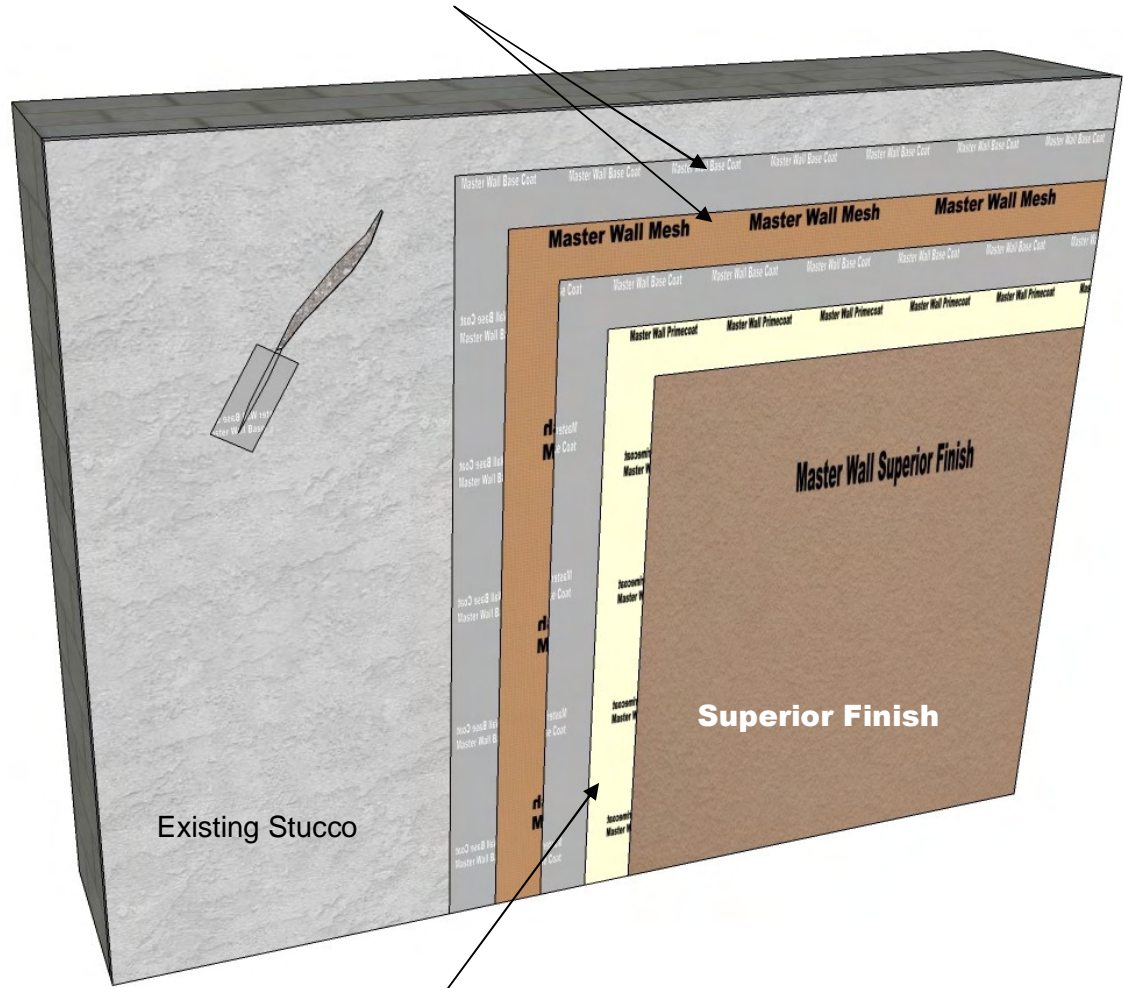
- Greater than 1/32": Fill with **Master Wall Base Coat**
- Greater than 1/16": Rake, clean and fill with **Master Wall Base Coat and Standard Mesh**

***SR-01 Typical Assembly with notes***

These drawings relay the conceptual conditions of Master Wall® Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall® Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold = Master Wall® Product.** ©2017 Master Wall Inc.®



**Master Wall Base Coat & Mesh**



**Primecoat Primer**

**SR-04 Typical 7-year Application**

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