



Master Wall Inc.®
Building a Culture of Excellence

PRODUCT DATA

F&M PLUS ADHESIVE & BASE COAT

F&M Plus is the high-build version of our Foam & Mesh Adhesive (F&M) used in Master Wall® Systems or over prepared substrates as a leveling coat.

FEATURES & BENEFITS

- High Build with leveling capability up to 1/4" (6.4 mm) thickness
- Fibered for better crack resistance
- Adheres insulation board to approved substrates
- Excellent water resistance
- Mixes 1:1 with Portland cement to a creamy consistency
- Base coat for Aggre-flex Mesh

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 Plus 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/m²)*

Adhesive & Standard Base Coat:
120 sf (11 m²)

Embedding Single-layer of Mesh:
240-280 sf (22-26 m²)

Double Layer of Mesh:
80-230 sf (7.5-21 m²)

Notched Trowel Adhesive Application:
135 sf (12.5 m²)

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

Packaging/Shelf Life/Storage

Packaging: 5 gallon (19 L) 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

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- 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 Plus 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 (0.9 L) 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 Plus mixture.

APPLICATION

ADHESIVE APPLICATION – Over gypsum or Rollershield coated substrates, apply the F&M Plus 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 Plus mixture around the entire perimeter of the insulation board. Place 8 dabs of the F&M Plus 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 Plus mixture to form a skin prior to placing the insulation board on the substrate. Do not apply the F&M Plus 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 Plus 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 Plus 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 Plus 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 Plus is still wet.

WARNING, THIS PRODUCT CONTAINS SILICA

If sanding or scraping are performed, ventilate work area and/or use a NIOSH/

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.

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