

SECTION 07550

MODIFIED BITUMINOUS MEMBRANE ROOFING – Peel & Seal® PowerBond™ White

This section is based on the products of MFM Building Products Corp., which is located at:

525 Orange St.
P. O. Box 340
Coshocton, OH 43812
Toll Free Tel: (800) 882-7663
Tel: (740) 622-2645
Fax: (740) 622-6161
Email: customerservice@mfmhcp.com
Web: <http://www.mfmhcp.com>

MFM Building Products was founded in 1961 and has been a leader in manufacturing waterproofing barriers and sealing systems for the construction industry. MFM offers customers a complete “envelope” of waterproofing solutions from the rooftop to the foundation.

MFM product advantages include: self-adhering or “self-stick” properties; self-sealing around fasteners; unique adhesive systems that will not crack or dry out; membranes that are compatible with most building materials; fast and easy installation to save time and money; competitively priced; rugged and reliable performance; and all products are made in the USA.

Whether your project is new construction, an addition or repair, you can rely on MFM Building Products for the best waterproofing and sealing solutions available. Contact 800-882-7663 or email customerservice@mfmhcp.com for more information or pricing.

PART 1 GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER **** Delete items below not required for project.

Seaming tape.

1.2 RELATED SECTIONS

**** NOTE TO SPECIFIER **** Delete any sections below not relevant to this project; add others as required.

Section 03300 - Cast-In-Place Concrete.

Section 04800 - Masonry Assemblies.

Section 06100 - Rough carpentry.

Section 06112 - Framing and Sheathing.

Section 07210 - Building Insulation.

1.3 REFERENCES

**** NOTE TO SPECIFIER **** Delete references from the list below that are not actually required by the text of the edited section.

ASTM International:

1. ASTM D 903 - Standard Test Method for Peel or Stripping Strength of Adhesive Bonds.
2. ASTM D 1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
3. ASTM D 2523 - Standard Practice for Testing Load-Strain Properties of Roofing Membranes.
4. ASTM D 3767 - Standard Practice for Rubber - Measurement of Dimensions.
5. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.
6. ASTM E 2112 - Standard Practice for Installation of Exterior Windows, Doors and Skylights.

Florida Building Code (FBC): Miami-Dade County Product Approval System.

7. FL No. 11842.2.
8. FL No. 13025.1.
9. FL No. 13025.2.

Underwriters Laboratories, Inc. (UL).

International Code Council: ICC-ES AC-75 - Acceptance Criteria for Membrane Roof-Covering Systems.

1.4 SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.
2. Storage and handling requirements and recommendations.
3. Installation methods.

Shop Drawings: Submit shop drawings including details of construction and relationship with adjacent construction.

Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

Warranty: Submit manufacturer's standard warranty.

**** NOTE TO SPECIFIER **** Delete selection samples if colors have already been selected.

Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.

Verification Samples: For each finish product specified, two samples, minimum size 3 inches (75 mm) x 4 inches (100 mm), representing actual product, color, and patterns.

1.5 QUALITY ASSURANCE

Installer Qualifications: Experienced in installation of specified material type with working knowledge of specified products and Project specific application requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.

Store products indoors in manufacturer's or fabricator's original containers and packaging, with labels clearly identifying product name and manufacturer. Protect from damage.

Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 PROJECT CONDITIONS

Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 WARRANTY

Limited Warranty:

1. Manufacturer warrants materials to be free from leaks caused by defects in material or manufacturing for a period of fifteen (15) years from the date of purchase when applied according to published directions.

PART 2 PRODUCTS

2.1 MANUFACTURERS

Acceptable Manufacturer: MFM Building Products Corp.; 525 Orange St., Coshocton, OH 43812. ASD. Toll Free Tel: (800) 882-7663. Tel: (740) 622-2645. Fax: (740) 622-6161. Email: customerservice@mfm-bp.com. Web: <http://www.mfm-bp.com>.

**** NOTE TO SPECIFIER **** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

Substitutions: Not permitted.

Requests for substitutions will be considered in accordance with provisions of Section 01600.

**** NOTE TO SPECIFIER **** Delete if not required.

2.2 SEAMING TAPE

Peel & Seal® PowerBond™ White is a 45 mil waterproofing tape composed of a patented cross-linked polymer with a thick layer of rubberized PowerBond™ adhesive. The patented PowerBond compound adheres to most surfaces and seals around punctures to form a protective waterproof barrier. Peel & Seal® PowerBond White may be installed at temperatures as low as 25° F. The product may be used anywhere a fast, dependable waterproofing barrier is needed and is ideal for roofing, patching, gutter repair, flashing and general waterproofing where the membrane will be exposed to the elements. It is designed for low-slope applications, and is ideal for mobile homes, trailers, RVs, sun rooms, over metal roofs. Product adheres directly to the substrate without the need for glues, adhesives, torches, tapes or fasteners. Installation only requires a utility knife and hand roller.

Product: **Peel & Seal® PowerBond™ White** as manufactured by MFM Building Products.

** NOTE TO SPECIFIER ** Delete products not required.

1. Product Model Numbers: 6 inches (152 mm) - MFM 56206.
2. Product Model Numbers: 4 inches (102 mm) - MFM 56204.
3. Description: Patented cross-linked polymer film with a thick layer of rubberized adhesive. The product is available in a white surface. The compound adheres to most surfaces and seals around most punctures, forming a protective waterproof barrier.
4. Release Liners: Applied to shield the adhesive surface until tape is installed.
5. Minimum Slope: Applicable for slopes greater than 1/2 inch per foot (42 mm per meter).
6. Technical Properties:
 - a. Material Color: White.
 - b. Material Thickness (ASTM D 3767): 45 Mils (1.1 mm) Nominal.
 - c. Flexibility at -20 degrees F (-29 degrees C) (ASTM D 1970): Pass.
 - d. Vapor Permeance (ASTM E 96): Less than 0.01.
 - e. Nail Sealability (ASTM D 1970): Pass.
 - f. Tensile MD (ASTM D 2523): 32 lbs/inch (0.57 Kg/mm).
 - g. Tensile CMD (ASTM D 2523): 33 lbs/inch (0.58 Kg/mm).
 - h. Elongation MD (ASTM D 2523): 788 percent.
 - i. Elongation CMD (ASTM D 2523): 779 percent.
 - j. Adhesion to Stainless Steel (ASTM D 1970): 17 lbs/in (0.30 Kg/mm).
 - k. Installation Temperature: Greater than 25 degrees F (-4 degrees C).

Accessories:

** NOTE TO SPECIFIER ** Delete accessories not required.

7. Substrate Primer: Asphalt-based commercial primer.
8. EPDM Substrate Primer: WeatherBond™ Multi-Purpose Primer as manufactured by MFM Building Products Corp.
9. Membrane Adhesive: MFM Spray Adhesive™ as manufactured by MFM Building Products Corp.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

Inspect and prepare substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.

Clean surfaces thoroughly prior to installation. Do not proceed with installation until substrates have been prepared using the methods recommended by the manufacturer and

deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.

If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

3.2 SEAMING TAPE INSTALLATION

Install in accordance with manufacturer's instructions.

1. **General Installation:** Installed by removing the release liner and pressing into place. It may be cut to fit with scissors or razor knife. Roll surface and seams with a hand-roller. Not intended for areas with ponding water. When overlapping, 3 inches (76 mm) side laps and 6 inches (152 mm) end laps are required. Masonry, concrete, weathered wood and rusted metal shall be primed. To improve adhesion, use spray adhesive as needed. Seam and overlaps shall be firmly rolled with a hand roller.
2. **Insulated Aluminum Panels:** Thoroughly clean the area with acetone and let dry about 1/2 hour. Apply over the finished panel seams. Peel back the release liner, center over the seam and press into place. Continue to peel back release liner as the roll is unrolled. Firmly roll tape with a hand roller to ensure good adhesion. Tape shall overlap at least 6 inches (152 mm) and be installed in a shingle-like manner so that water runs over the laps.
3. **Gutter Repair:** Make sure the gutter is clean and dry. If corroded, prime surfaces to be sealed. Apply tape the length of the gutter to minimize seams. End laps should be 6 inches (152 mm) minimum. Roll entire surface with hand roller with extra attention to seams.
4. **General Purpose Flashing:** Follow general installation requirements. Make sure overlaps are such that water will flow over the lap rather than against the lap. Roll entire surface with hand roller, paying extra attention to seams and edges. Concrete and masonry shall be primed first.

3.3 PROTECTION

Protect installed products until completion of project.

Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION