



MFM Building Products Corp. manufactures a wide range of innovative waterproofing products for the building industry. Founded in 1961, MFM products are engineered for superior performance and ease of installation.

DESCRIPTION

FlexClad® 400 is a pre-fabricated self-adhering, sheet-type protective membrane. The outer layer is an embossed, UV-resistant aluminum weathering surface. Under the aluminum are multiple layers of tough, high-density, cross-linked polymer films. Under the polymer film is a uniform layer of aggressive rubberized asphalt adhesive which sticks directly to metal, insulation facers and most other clean, dry surfaces. The self-adhesive surface is protected by a disposable release liner.

USES

Designed specifically to protect ductwork and sub-grade applications, FlexClad® 400 can be applied over rigid board insulation, cold pipes, plenums, storage tanks, iron, copper, steel, and concrete. FlexClad® 400 can be used for piping systems, pipelines and other below grade structures. The product weatherproofs, resists water leaks and vapor transmission, preserves the efficiency of thermal insulation and reflects sunlight to reduce interior temperatures. FlexClad® 400 is designed for exterior, interior or sub-grade use, and it may be used in direct burial applications.

FEATURES

- All-weather, light-weight, durable and tear-resistant
- Use in place of rigid aluminum jacket or fabric/mastic systems
- Meets 25/50 Flame/Smoke Rating per ASTM E84
- Self-stick application saves time, labor, materials, and equipment
- Seals at laps, resists moisture, protects metal and insulation
- Excellent elongation to accommodate structural movement
- Uniform thickness for optimum waterproofing performance
- Self-seals around punctures and penetrations

GENERAL INSTALLATION NOTES

FlexClad® 400 is a pressure sensitive product. Substrate must be properly prepared before installation. Always apply concentrated pressure to the entire surface of the membrane with a hand roller. Duct bottoms over 24" should be pinned. **For detailed Installation Instructions, visit www.flexclad.com.**

LIMITATIONS

FlexClad® 400 is intended to act as a weatherproofing barrier. Do not use the product as a substitute for banding, pinning or other means of securely attaching insulation and underlying materials. Follow insulation manufacturer's instructions for attaching these products. FlexClad® 400 is designed to protect insulation, air handling equipment and pipelines from the infiltration of outside moisture into the system. It is not designed to handle the effects of pressure-driven moisture caused by differential temperatures, air movement or extraordinary humidity. FlexClad® 400 is not designed for permanent emersion in water. **Installer is responsible for compatibility with all caulks and sealants.**

10-YEAR LIMITED WARRANTY

MFM Building Products Corp. (MFM) warrants materials to be free from leaks caused by defects in material or manufacturing for a period of ten (10) years from the date of purchase when applied according to published directions.

For the most current Installation Instructions, Warranties, and Technical Specifications, visit www.flexclad.com.

PRODUCT DATA

| | |
|----------------------------------|-------------------------|
| Minimum Installation Temperature | ≥40°F |
| Material Color | Aluminum, White, Almond |
| Roll Size | 36" x 33.5 ft |
| Carton Weight | 33 lbs |
| Rolls per Carton | 1 |
| Area per Carton | 100 ft ² |
| Cartons per Pallet | 36 |
| Maximum Temperature Rating | 175°F |

TECHNICAL SPECIFICATIONS

| Property | Test Method | Result* |
|--|------------------|---------------|
| Material Thickness | ASTM D1970 | 45 Milis Nom. |
| Dimensional Stability | ASTM D828/C1136 | <0.00 % |
| Solar Reflectance - Aluminum | ASTM C1549 | 0.900 |
| Solar Reflectance - White | ASTM C1549 | 0.879 |
| Solar Reflectance - Almond | ASTM C1549 | 0.513 |
| Thermal Emittance - Aluminum | ASTM C1371 | 0.03 |
| Thermal Emittance - White | ASTM C1371 | 0.04 |
| Thermal Emittance - Almond | ASTM C1371 | 0.03 |
| Thermal Resistance | ASTM C518 | 0.082 |
| R-Value | --- | R-1.8 |
| Fungi Resistance | ASTM C1338 | Pass |
| Thermal Integrity | ASTM D903/D1970 | Pass |
| Vapor Permeance | ASTM E96 | <0.001 perms |
| Burst Strength | ASTM D774 | 53 psi |
| Elevated Temp/Humidity | ASTM C1258/E96 | Pass |
| Peel Adhesion @ 40°F | ASTM E3330 | 4.6 lbf/in |
| Tensile Strength MD | ASTM D412 | 30 lbf/in |
| Tensile Strength CMD | ASTM D412 | 36 lbf/in |
| Tear Strength MD | ASTM D4073/D1970 | 44 lbf |
| Tear Strength CMD | ASTM D4073/D1970 | 45 lbf |
| Tear Strength MD | PSTC 38 | 2515 psi |
| Tear Strength CMD | PSTC 38 | 1760 psi |
| Permeance of Flame Retardancy | TAPPI T461 | 0% |
| Surface Burning - Flame Spread | ASTM E84 | 0 |
| Surface Burning - Smoke Dev. | ASTM E84 | 48.6 |
| Thermal Resistance °F-ft ² /BTU/h | ASTM C518 | 0.082 |

PRODUCT NUMBERS | UPC CODES

| Aluminum | White | Almond |
|-----------------|-----------------|-----------------|
| 36" - 52FC36 | 36" - 52FW36 | 36" - 52FA36 |
| 7 25799 52436 9 | 7 25799 52536 6 | 7 25799 52836 7 |

*Results listed may be the test criteria and not actual test results.