



**MFM Building Products Corp.** manufactures a wide range of innovative waterproofing products for the building industry. With more than 58 years of field experience, 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, PVC, CPVC and concrete. FlexClad 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](http://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.

## 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](http://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 <sup>2</sup>
Cartons per Pallet	30
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	27 lbf/in
Tensile Strength CMD	ASTM D412	40 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 <sup>2</sup> /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