



## **FLEX MF/R 50 PVC ROOF MEMBRANE** **(60", 78" and 120" Wide, Reinforced, Thermoplastic Roof Membrane)**

### **PRODUCT DESCRIPTION**

The Flex MF/R 50 PVC (polyvinyl chloride) Roofing Membrane is a high-performance thermoplastic membrane designed for mechanically attached or adhered roofing applications. The Flex MF/R 50 PVC is produced with high grade polyvinyl chloride resins into a polyester reinforced roofing membrane with built in chemical, UV and fire resistance. The Flex MF/R 50 PVC white membrane results in a highly reflective, low maintenance roof surface that saves the Building Owner energy and labor costs and helps reduce pollution in the surrounding environment.

### **FEATURES AND BENEFITS**

- 120" wide membrane saves in labor costs for installation - 20% less seams to weld.
- 120" wide membrane saves in material costs - 20% less fasteners and plates.
- Hot air welded seams are the strongest, most reliable seams in the roofing industry.
- Chemical, Ozone and UV exposure do not affect surface pliability or functional integrity.
- Energy Saving Reflective Roof Surface is more in demand than ever before.
- Effectively tested to perform in high wind situations - meets or exceeds FM Class 1-90 wind uplift requirements.
- Increased cold weather flexibility allows installation in below freezing temperatures.
- Available in White, Gray and Tan colors.

### **MECHANICALLY ATTACHED INSTALLATIONS**

The Flex MF/R 50 PVC membrane is ideal for use as a mechanically attached membrane for new construction and re-roofing. Flex's MF/R 50 PVC membrane is lightweight, just a few ounces per square foot, making it ideal for re-roofing projects where a tear off can be avoided. Flex has several fastener and plate options available to meet a wide range of wind uplift pressure requirements.

### **ADHERED INSTALLATIONS**

The Flex MF/R 50 PVC Roofing Membrane can be installed with Flex's Bonding Adhesive for a fully adhered installation. This system is ideal for installations with unusual or odd shaped contours. Fully adhered installations are the answer for design limitations on mechanical penetrations of the deck or for situations where increased wind uplift pressure requirements must be met.

### **APPROVALS**

The Flex MF/R 50 PVC Roofing Membrane exceeds the requirements of ASTM D4434 standard for poly (vinyl chloride) thermoplastic sheet roofing. The Flex MF/R 50 PVC Roofing Membrane meets and exceeds Factory Mutual's 1-90 wind uplift requirements in numerous adhered and mechanically attached roof applications and meets Underwriters Laboratories Class A fire rating.

## **PHYSICAL PROPERTIES**

<b><u>Property</u></b>	<b><u>Test Procedure</u></b>	<b><u>Specification</u></b>
Color		White, Gray, Tan
Thickness	ASTM D751	.050" nominal
Thickness over scrim	ASTM D7635	.025"
Roll Size		60" x 100' 78" x 100' 120" x 100'
Weight		5.5 oz./ft <sup>2</sup>
Breaking Strength (minimum, lbf/in.)	ASTM D751	256 x 242
Seam Strength	ASTM D751	297 lbf
Elongation @ Break	ASTM D751	57% x 54%
Heat Aging	ASTM D3045	>90%
Tear Strength min. lbf.	ASTM D751	99 x 70
Low Temperature Bend	ASTM D2136	PASS (-40°F)
Static Puncture Resistance	ASTM D5602	PASS @ 33 lbs.
Dynamic Puncture Resistance	ASTM D5635	PASS @ 20 J
Dimensional Change (maximum %)	ASTM D-1204 (@ 176° F, 6 hours)	0.25%
Water Immersion	ASTM D-570	1.96%
Accelerated Weathering	ASTM G-155	PASS
Solar Reflectivity	ASTM C1549	82% (White)
	ASTM C1549	68% (Gray)
	ASTM C1549	69% (Tan)
Emissivity	ASTM C1371	.91 (White)
	ASTM C1371	.87 (Gray)
	ASTM C1371	.85 (Tan)
SRI	ASTM E1980	109 (White)
	ASTM E1980	82 (Gray)
	ASTM E1980	83 (Tan)

Flex MF/R PVC membrane is thermoplastic in nature and exceeds the requirements of ASTM D4434 standard specification for poly (vinyl chloride) sheet roofing.

## **WARRANTY**

The Flex MF/R 50 PVC Roofing Membrane may receive the manufacturer's standard five (5) year, ten (10) year or fifteen (15) year guarantee of watertightness.