



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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FLEX MF/R 50 PVC ROOF SYSTEM **(39", 78", 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 to reduce pollution in the surrounding environment. The Flex MF/R 50 PVC membrane is also available in a gray and tan color.

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 more in demand than ever before.
- Effectively tested to perform in high wind situations.
- Increased cold weather flexibility allows installation in below freezing temperatures
- .050" thick membranes

Mechanically Attached Installations

The Flex MF/R 50 PVC membrane is ideal for use as a mechanically attached membrane for new construction and reroofing. Flex's MF/R 50 PVC membrane is lightweight just a few ounces per square foot making it ideal for reroofing 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. The 120" wide Flex MF/R 50 PVC membrane allows for a faster lower cost installation than other mechanically attached roof membrane systems.

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 polyvinyl 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

<u>CHARACTERISTICS</u>	<u>TEST METHOD</u>	<u>PHYSICAL PROPERTIES</u>
Color		White , Gray, Tan
Thickness	ASTM D751	.050" nominal
Roll Size		39" x 100' 78" x 100' 120" x 100'
Weight		5.5 oz./ft ²
Breaking Strength (minimum, lbf/in.)	ASTM D751	225
Seam Strength (minimum % of breaking strength)	ASTM D-751	90%
Elongation @ Break	ASTM D751	29%
Heat Aging	ASTM D3045	90%
Tear Strength min. lbf.	ASTM D751	88
Low Temperature Bend	ASTM D2136	PASS (-40°F)
Static Puncture Resistance	ASTM D5602	PASS @ 33 lbs.
Dynamic Puncture Resistance	ASTM D5635	PASS @ 20 J
Puncture Resistance	FTMS 101 C	448 lbs.
Permeance	ASTM D-1204 (Procedure BW)	.003 Perms -- .055 Perms
Dimensional Change (maximum %)	ASTM D-1204 (@ 176° F, 6 hours)	0.5%
Water Immersion	ASTM D-570	1.5%
Accelerated Weathering (UV-B, 8 hr.,@70°C, condensate, 4hr.@ 50°C)	ASTM G-53	None
Underwriters Laboratories		Class A
Factory Mutual		Class 1-90 minimum
Solar Reflectivity	ASTM E903	.822
Emissivity	ASTM E903	.915
SRI	ASTM E903	109

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.