



## Product Data Sheet

### **FLEX MF/R 50 ELVALOY® KEE ROOF MEMBRANE** **(40.5", 60", 81" and 120" Wide, Reinforced, Thermoplastic Roof Membrane)**

#### **PRODUCT DESCRIPTION**

The Flex MF/R 50 Elvaloy® KEE Roofing Membrane is a high-performance thermoplastic membrane designed for mechanically attached or adhered roofing applications. The Flex MF/R 50 is produced with DuPont Elvaloy® KEE and is a polyester reinforced roofing membrane with built in chemical, UV and fire resistance. The Flex MF/R 50 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.

#### **FEATURES AND BENEFITS**

- Wider membrane saves in labor costs for installation - less seams to weld.
- Wider membrane saves in material costs - less fasteners and plates.
- Hot air welded seams are the strongest most reliable seams in the roofing industry.
- Chemical, Ozone and UV exposure does not affect surface pliability or functional integrity
- Energy Saving White Reflective Roof Surface is more in demand than ever before.
- Increased cold weather flexibility allows installation in below freezing temperatures.
- Effectively tested to perform in high wind situations - meets or exceeds FM Class 1-90 wind uplift requirements.
- Approved by Underwriters Laboratories in Class A fire rated roof systems.

#### **MECHANICALLY ATTACHED INSTALLATIONS**

The Flex MF/R 50 Elvaloy® KEE Roofing Membrane is ideal for use as a mechanically attached membrane for new construction and re-roofing. Flex's MF/R 50 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. The wider Flex MF/R 50 membrane allows for a faster and cost effective installation than other mechanically attached roof membrane systems.

#### **ADHERED INSTALLATIONS**

The Flex MF/R 50 Elvaloy® KEE Roofing Membrane can be installed with Flex 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.

Review Flex Specifications for Complete Installation Information.

## **PHYSICAL PROPERTIES**

<b><u>Property</u></b>	<b><u>Test Procedure</u></b>	<b><u>Specification</u></b>
Color		White, Gray or Tan
Thickness	ASTM D751	.050"
Thickness over scrim	ASTM D7635	.026"
Breaking Strength (lbf)	ASTM D751	298 x 278
Seam Strength (lbf)	ASTM D751	286
Tear Strength (lbf)	ASTM D751	89 x 109
Elongation	ASTM D751	35% x 34%
Heat Aging	ASTM D3045	> 90 %
Static Puncture Resistance	ASTM D5602	PASS
Dynamic Puncture Resistance	ASTM D5635	PASS
Low Temperature Bend	ASTM D2136	PASS (-40°F)
Permeance	ASTM E96	.003 Perms
Dimensional Stability	ASTM D1204	0.3%
Wt. Change after Water Immersion	ASTM D570	1.20%
Accelerated Weathering	ASTM G155	Pass
Fungi Resistance	ASTM G21	Pass
Solar Reflectivity	ASTM C1549	82% (White)
	ASTM C1549	69% (Gray)
	ASTM C1549	68% (Tan)
Emissivity	ASTM C1371	.91 (White)
	ASTM C1371	.86 (Gray)
	ASTM C1371	.87 (Tan)
SRI	ASTM E1980	109 (White)
	ASTM E1980	83 (Gray)
	ASTM E1980	83 (Tan)

Flex Elvaloy® KEE based membranes meet the requirements of ASTM D4434 standard specification for poly (vinyl chloride) based sheet roofing.

## **WARRANTY**

The Flex MF/R 50 Elvaloy® KEE Roofing Membrane may receive the manufacturer's standard five (5) year or optional ten (10) year, fifteen (15) year or twenty (20) year guarantee of watertightness.

Elvaloy® KEE is a registered trademark of Dupont.