



## Thermoplastic Single Ply and Multi-Ply Roofing Systems

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### **FLEX MF/R PLUS ELVALOY® KEE FLASHING ROOF SYSTEM** **(78" and 39" Wide, Reinforced, Flashing Roof Membrane)**

#### **PRODUCT DESCRIPTION**

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

- 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.
- Available in .045", .060" and .080" thick membranes.

#### **INSTALLATION**

The Flex MF/R Plus Elvaloy® KEE Flashing Membrane is specifically designed for use in standard detail flashing applications. It is used for wall flashing, curb flashing, drain targets and stripping membrane. The Flex MF/R Plus Elvaloy® KEE Flashing Membrane is a reinforced flashing membrane formulated with Dupont Elvaloy® KEE. It has been designed for membrane durability and overall longevity. The Flex MF/R Plus Elvaloy® KEE Flashing Membrane is installed with Flex Bonding Adhesive. All seams on the Flex MF/R Plus Elvaloy® KEE Flashing Membrane are completed by the hot air welding method.

#### **APPROVALS**

The Flex MF/R Plus Elvaloy® KEE Flashing Membrane exceeds the requirements of ASTM D4434 standard for thermoplastic sheet roofing. The Flex MF/R Plus Elvaloy® KEE Roof Systems meets or exceeds Factory Mutual's 1-90 wind uplift requirements in numerous adhered and mechanically attached applications and meets Underwriters Laboratories Class A fire rating.

## **PHYSICAL PROPERTIES**

<b><u>Characteristics</u></b>	<b><u>Test Method</u></b>	<b><u>Physical Properties</u></b>
Color		White
Thickness	ASTM D751	.045", .060", .080" nominal
Weight		4.9 oz./ft <sup>2</sup> , 6.1 oz./ft <sup>2</sup> , 8.2 oz./ft <sup>2</sup>
Breaking Strength (minimum, lbs/in.)	ASTM D751 (grab method)	300 lbs. x 300 lbs.
Seam Strength (minimum % of breaking strength)	ASTM D638	90%
Elongation @ Break	ASTM D751	17% x 19% -- 35% x 40%
Heat Aging	ASTM D3045	80% x 80%
Tear Strength	ASTM D751	100 lbs. x 100 lbs.
Low Temperature Bend	ASTM D2136	PASS (-40°F)
Permeance	ASTM D1204 (Procedure BW)	.003 Perms -- .055 Perms
Dimensional Change (maximum %)	ASTM D1204 (@ 176° F, 6 hours)	0.3%
Dimensional Change (maximum %)	ASTM D1204 (@ 212° F, 1 hour)	1.0%
Water Immersion	ASTM D570	1.0%
Hydrostatic Resistance (min., psi)	ASTM D751 (method D)	400 psi
Ozone Resistance	ASTM D1149	PASS
Accelerated Weathering (UV-B, 8 hr., @70°C, condensate, 4hr. @ 50°C)	ASTM G53	None
Emmaqua Test Underwriters Laboratories	ASTM E838	Pass (2.7 million Langleys) Class A
Factory Mutual		Class 1-90
Solar Reflectivity	ASTM E903	.822
Emissivity	ASTM C1371	.915
SRI	ASTM E1980	109

Flex MF/R Plus Elvaloy® KEE Flashing 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 Plus Elvaloy® KEE Flashing Membrane may receive the manufacturers 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.