



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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FLEX FB Plus 80 ELVALOY® KEE ROOF SYSTEMS **FLEECE BACKED, REINFORCED, THERMOPLASTIC ROOF MEMBRANE** **(76" wide and 120" wide rolls)**

PRODUCT DESCRIPTION

The Flex FB Plus 80 Elvaloy® KEE Roofing Membranes are high-performance thermoplastic membranes designed for mechanically attached or adhered roofing applications. The Flex FB Plus 80 Roofing Membrane is produced with DuPont Elvaloy® KEE and is manufactured in thicknesses of 80 Mils of polyester reinforced membrane with a fleece backing.

For re-roofing installations, the fleece backing serves as a separation or cushioning layer between the membrane and a preexisting, smooth built-up or cap sheet surface, including structural or lightweight concrete decks and various types of insulations. In adhered and mechanically attached applications, the Flex FB Plus 80 Elvaloy® KEE Roofing Membrane can be installed directly over most substrates with excellent results.

FEATURES AND BENEFITS

The Flex FB Plus 80 Elvaloy® KEE Roofing Membranes have been specifically designed for use over minor imperfections, splits or ridges that may have formed in the existing roof system. The fleece backing acts as a cushioning layer which prevents abrasion problems and keeps small imperfections or ridges from coming in contact with the membrane, eliminating the need for insulation or slipsheets.

The unique combination of the quality performance and longevity of the Flex FB Plus 80 Elvaloy® KEE Thermoplastic Roofing Membranes with the durability and added protection of the fleece backing provides the building owner with an unmatched, superior roof system.

ADHERED INSTALLATIONS

The Flex FB Plus 80 Elvaloy® KEE Roofing Membranes offer distinct advantages in adhered applications directly over lightweight and structural concrete with Flex's (Water-Based) Substrate Adhesive or in hot steep asphalt. The Flex FB Plus 80 Elvaloy® KEE Roofing Membranes can be installed in Flex's Substrate Adhesive or hot steep asphalt over a wide variety of insulations and deck types with proven results. The superior wind uplift performance achieved by the Flex FB Plus 80 Elvaloy® KEE Roofing Membrane adhered roof system meets Factory Mutual's Class 1-270 over lightweight concrete. This allows for high rise and coastal region installations in the most extreme weather conditions.

APPROVALS

The Flex FB Plus 80 Elvaloy® KEE Roofing Membranes exceed the requirements of ASTM D6754 standard for thermoplastic sheet roofing. The Flex FB Plus 80 Elvaloy® KEE Roofing Membranes meet a wide range of Factory Mutual's wind uplift requirements up to a FM Class 1-735 when installed on a Structural Concrete Deck. The FB Plus 80 Elvaloy® KEE Roofing Membranes are also assembled in a variety of adhered and mechanically attached roof applications that meet Underwriters Laboratories Class A fire rating.

FLEX FB Plus 80 ELVALOY® KEE ... ONE SUPERIOR ROOF SYSTEM

The ease of the Flex FB Plus 80 Elvaloy® KEE Membrane one-step installation process provides overall time and labor savings advantages as well as the superior performance and durability of Elvaloy® KEE which can withstand the harshest of chemicals and the most punishing UV and aging tests available. The Flex FB Plus 80 Elvaloy® KEE Membrane seams are hot-air welded which are as strong as the membrane itself and creates a quality watertight seal that will not break down over time. The fleece backing ensures added protection in those areas where there is excessive foot traffic. Overall the Flex FB Plus 80 Elvaloy® KEE Roofing Membrane is the roof of choice when you need a dependable and reliable roof system which will out perform all requirements and expectations.

PHYSICAL PROPERTIES

<u>Property</u>	<u>Test Procedure</u>	<u>Specification</u>
Color		white, gray, tan
Thickness	ASTM D751	.080"
Thickness over scrim	ASTM D751	.038"
Breaking Strength	ASTM D751	508 lbf/in
Tear Strength	ASTM D751	122 lbf
Elongation at break	ASTM D751	48 %
Fabric Adhesion	ASTM D751	18 lbf/in
Retention of Properties after Heat Aging	ASTM D3045	
Breaking Strength		99%
Elongation at Break		96%
Low Temperature Bend	ASTM D2136	pass
Change in weight after water immersion	ASTM D471	1.5%
Factory Seam Strength	ASTM D751	459 lbf.
Lineal Dimensional change	ASTM D1204	0.3%
Hydrostatic Resistance	ASTM D751	pass
Static Puncture Resistance	ASTM D5602	pass
Dynamic Puncture Resistance	ASTM D5635	pass
Accelerated Weathering	ASTM G154	pass
Accelerated Weathering	ASTM G155	pass
Fungi Resistance	ASTM G 21	pass
Abrasion Test	ASTM D3389	pass
Solar Reflectivity	ASTM E903	.811 (white)
Emissivity	ASTM E903	.919 (white)
SRI	ASTM E903	109 (white)

Flex FB Elvaloy® KEE membrane is thermoplastic in nature and exceeds the requirements of ASTM D6754 standard specification for Elvaloy® KEE sheet roofing.

Elvaloy® is a registered trademark of DuPont.