



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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FLEX FB 120 ELVALOY® KEE ROOF SYSTEM **(120" WIDE, FLEECE BACKED, REINFORCED, THERMOPLASTIC ROOF MEMBRANE)**

PRODUCT DESCRIPTION

The Flex FB 120 Elvaloy® Roofing Membrane is a high performance thermoplastic membrane designed for adhered, mechanically attached or ballasted roofing applications. The Flex FB 120 is produced with DuPont Elvaloy® KEE and is available in thickness of 45 mils, 60 mils and 80 mils of polyester reinforced membrane with a fleece backing. The Flex FB 120 Elvaloy® Roofing Membrane is an effective choice for new or re-roofing installations as the fleece backing allows the membrane to be installed directly over most substrates with hot steep asphalt or Flex Substrate Adhesive or as a mechanically attached assembly.

FEATURES AND BENEFITS

The Flex FB 120 Elvaloy® Roofing Membrane may be installed fully adhered or mechanically attached to a wide range of substrates including structural or lightweight concrete decks and various types of insulation. The Flex FB 120 Elvaloy® Roofing Membrane has a high degree of resistance to exposure from harsh chemicals and extreme environments. The Elvaloy® ingredient increases the ability of the membrane to remain flexible in temperatures well below freezing. The Flex FB 120 Elvaloy® Roofing Membrane is ideal for applications where standard roofing membranes do not perform well such as heavy industrial sites, airports, and food service facilities. The hot air welded seams allow the membrane to be installed in extreme low slope conditions as ponding water has no effect on the membrane. The wider sheet reduces installation cost and increases production.

INSTALLATION

The Flex FB 120 Elvaloy® Roofing Membrane may be installed mechanically attached or adhered with either hot steep asphalt or Flex Substrate Adhesive which is a cold process water based asphalt emulsion adhesive. The membrane may be installed directly over lightweight or structural concrete as well as a wide variety of insulations. All seams of the Flex FB 120 Elvaloy® Roofing Membrane are sealed by hot air welding recognized as the strongest seam in the roofing industry. Flex has a variety of cold process roofing component configurations that allow for fast and efficient installation in areas that are restricted to fumes or flames such as hospitals, schools, heavily congested city centers or hard to reach areas.

APPROVALS

The Flex FB 120 Elvaloy® Roofing Membrane exceeds the requirements of ASTM D-4434 standard for thermoplastic sheet roofing. The Flex FB 120 has been thoroughly tested by Factory Mutual and has numerous applications exceeding Class 1-90. The Flex FB 120 has been approved for Class A fire rating by Underwriters Laboratories. Due to the white heat reflective surface, Flex

thermoplastic membranes are approved by the EPA's Energy Star® Program and the Cool Roof Rating Council (CRRC).

PHYSICAL PROPERTIES

<u>Characteristics</u>	<u>Test Method</u>	<u>Specification</u>
Color		White
Thickness .080" nominal	ASTM D-751	.045", .060",
Rolls Size		45 mil: 10' x 100' 60 mil: 10' x 100' 80 mil: 10' x 100'
Breaking Strength	ASTM D751	350 lbs. x 325 lbs.
Seam Strength	ASTM D638	90%
Elongation @ Break	ASTM D751	40% x 30%
Heat Aging	ASTM D3045	80% x 80%
Tear Strength	ASTM D751	100 lbs. x 100 lbs.
Low Temp. Bend	ASTM D2136	Pass (-40°F)
Dynamic Puncturing	ASTM D5635	280 lbs.
Permeance	ASTM E96	0.003 Perms
Dimensional Change	ASTM D1204 @ 176°F, 6h	0.3%
Dimensional Change	ASTM D1204 @ 212°F, 1h	1.0%
Water Immersion	ASTM D570 @ 158°F, 1 week	1.0%
Hydrostatic Pressure	ASTM D751	400 psi
Ozone Resistance	ASTM D1149	Pass
EmmaQua	ASTM E838	Pass
Solar Reflectivity	ASTM E903	.822
Emissivity	ASTM C1371	.915
SRI	ASTM E1980	109

Flex FB 120 Elvaloy® Roofing Membranes are thermoplastic in nature and exceed the requirements of ASTM D- 4434 standard specification for poly vinyl chloride sheet roofing.

WARRANTY

The Flex FB Plus Elvaloy® KEE Roofing 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® is a registered trademark of DuPont.