

# FLEX FB 80 ELVALOY<sup>®</sup> KEE ROOF MEMBRANE (76"and 120" Wide, Reinforced, Thermoplastic Roof Membrane)

#### **PRODUCT DESCRIPTION**

The Flex FB 80 Elvaloy<sup>®</sup> KEE Roofing Membrane is a high performance thermoplastic membrane designed for adhered roofing applications. The Flex FB 80 is produced with DuPont Elvaloy<sup>®</sup> KEE at a thickness of 80 mils of polyester reinforced membrane plus a 5.50 oz. polyester fleece backing. The Flex FB 80 Elvaloy<sup>®</sup> KEE 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.

#### FEATURES AND BENEFITS

- The wider sheet reduces installation cost and increases production.
- May be installed fully adhered to a wide range of substrates including structural or lightweight concrete decks and various types of insulation.
- Has a high degree of resistance to exposure from harsh chemicals and extreme environments.
- The Elvaloy<sup>®</sup> KEE formulation increases the ability of the membrane to remain flexible in temperatures well below freezing.
- 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.

## **INSTALLATION**

The Flex FB 80 Elvaloy<sup>®</sup> KEE Roofing Membrane may be installed fully adhered with either Type III or IV hot steep asphalt or Flex Substrate Adhesive, 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 80 Elvaloy<sup>®</sup> KEE 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, and heavily congested city centers or hard to reach areas.

Review Flex Specifications for Complete Installation Information.

## APPROVALS

The Flex FB 80 Elvaloy<sup>®</sup> KEE Roofing Membrane exceeds the requirements of ASTM D4434 standard for thermoplastic sheet roofing. The Flex FB has been thoroughly tested by Factory Mutual and has numerous applications meeting or exceeding Class 1-90. The Flex FB 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

Property	Test Procedure	Specification
Color Thickness Thickness over scrim Weight Per Roll	ASTM D751 ASTM D7635	White, Gray, Tan .080" .040" 76"x75' - 265 lbs.
Breaking Strength (lbf) Tear Strength (lbf) Seam Strength (lbf)	ASTM D751 ASTM D751 ASTM D751	10'x75' - 203 lbs. 10'x75' - 420 lbs. 325 x 324 89 x 109 295
Elongation Heat Aging Low Temp. Bend Static Puncture Resistance	ASTM D751 ASTM D3045 ASTM D2136 ASTM D5602	50% x 42% > 90 % Pass (-40°F) Pass
Dynamic Puncture Resistance Permeance Dimensional Stability	ASTM D5635 ASTM E96 ASTM D1204	Pass 0.003 Perms 0.3 %
Weight change after Water Immersion Accelerated Weathering Fungi Resistance Solar Reflectivity	ASTM D570 ASTM G155 ASTM G-21 ASTM C1549	1.20 % Pass No Growth 82% (White)
Emissivity	ASTM C1549 ASTM C1549 ASTM C1371 ASTM C1371	69% (Gray) 68% (Tan) .91 (White) .86 (Gray)
SRI	ASTM C1371 ASTM E1980 ASTM E1980 ASTM E1980	.87 (Tan) 109 (White) 83 (Gray) 83 (Tan)

Flex FB 80 Elvaloy<sup>®</sup> KEE Roofing Membranes are thermoplastic in nature and exceed the requirements of ASTM D4434 standard specifications for poly (vinyl chloride) based sheet roofing.

#### WARRANTY

The Flex FB 80 Elvaloy<sup>®</sup> KEE Roofing Membrane may receive the manufacturer's standard five (5) year or optional ten (10) year, fifteen (15) year, twenty (20) year, twenty-five (25) year or thirty (30) year guarantee of watertightness.

Elvaloy<sup>®</sup> KEE is a registered trademark of DuPont.