



## Thermoplastic Single Ply and Multi-Ply Roofing Systems

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### **FLEX FB 80 PVC (Polyvinyl Chloride) ROOF SYSTEMS** **(FLEECE BACKED, REINFORCED, THERMOPLASTIC ROOF MEMBRANE)** **(76" and 120" Wide, Reinforced, Thermoplastic Roof Membrane)**

#### **PRODUCT DESCRIPTION**

The Flex FB 80 PVC Roofing Membranes is a high-performance thermoplastic membrane designed for mechanically attached or adhered roofing applications. The Flex FB 80 PVC Roofing Membrane is manufactured in a thickness of 80 Mils of polyester reinforced membrane with a fleece backing.

For re-roofing installations, the fleece backing serves as a separation layer between the membrane and incompatible substrates and it provides a built in cushioning layer. In adhered and mechanically attached applications, the Flex FB 80 PVC Roofing Membrane can be installed directly over most substrates with excellent results.

#### **FEATURES AND BENEFITS**

The Flex FB 80 PVC Roofing Membrane has 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 80 PVC Thermoplastic Roofing Membrane with the durability and added protection of the fleece backing provides the building owner with an unmatched, superior roof system.

#### **MECHANICALLY ATTACHED INSTALLATIONS**

The Flex FB 80 PVC Roofing Membrane is ideal for use as a mechanically attached membrane over approved existing roof surfaces. Once again, the fleece backing acts as a cushioning layer and minimizes the effect of minor imperfections in the substrate, which greatly improves the overall aesthetic appearance of the completed project and eliminates the need for insulation in most cases.

#### **ADHERED INSTALLATIONS**

The Flex FB 80 PVC Roofing Membrane offers distinct advantages in adhered applications directly over lightweight and structural concrete with Flex's WB (Water-Based) PVC Substrate Adhesive. The Flex FB 80 PVC Roofing Membrane can be installed in Flex's WB PVC Substrate Adhesive over a wide variety of insulations and deck types with proven results. The superior wind uplift performance achieved by the Flex FB 80 PVC 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 80 PVC Roofing Membrane exceeds the requirements of ASTM D4434 standard for thermoplastic sheet roofing. The Flex FB 80 PVC 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 80 PVC Roofing Membrane can also be assembled in a variety of adhered and mechanically attached roof applications that meet Underwriters Laboratories Class A fire rating.

## **FLEX FB 80 PVC ... RELIABLE, TIME TESTED ROOF SYSTEM**

The ease of the Flex FB 80 PVC Membrane one-step installation process provides overall time and labor savings advantages as well as the superior performance and durability of PVC (polyvinyl chloride) which can withstand the harshest of climates and the most punishing UV and aging tests available. The Flex FB 80 PVC 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 80 PVC 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**

<b><u>CHARACTERISTICS</u></b>	<b><u>TEST METHOD</u></b>	<b><u>PHYSICAL PROPERTIES</u></b>
Color		White, Gray, Tan
Thickness	ASTM D751	.080"
Thickness over Scrim	ASTM D751	0.038"
Breaking Strength	ASTM D751	339 lbf
Tear Strength	ASTM D751	105 lbf
Elongation	ASTM D751	45%
Seam Strength	ASTM D751	90 %
Static Puncture	ASTM D5602	Pass
Dynamic Puncture	ASTM D5635	Pass
Heat Aging	ASTM D3045	99%
Cold Resistance	ASTM D2136	-40°F
Vapor Permeability	ASTM E96	3.5 g/m2/day
WT. Change After Immersions	ASTM D570	1.5% max
Seam Strength	ASTM D751	80%
Dimensional Stability	ASTM D1204	0.3%
Accel. Weathering	ASTM 2565	10M hrs. (no change)
Solar Reflectivity	ASTM E903	.811
Emissivity	ASTM E903	.919
SRI	ASTM E1980	109

Flex FB PVC membrane is thermoplastic in nature and exceeds the requirements of ASTM D4434 standard specification for poly (vinyl chloride) sheet roofing.