



FLEX FB 50 PVC ROOF MEMBRANE **(120" Wide, Reinforced, Thermoplastic Roof Membrane)**

PRODUCT DESCRIPTION

The Flex FB 50 PVC (polyvinyl chloride) Roofing Membrane is a high-performance thermoplastic membrane designed for mechanically attached or adhered roofing applications. The Flex FB 50 PVC Roofing Membrane is manufactured in a thickness of 50 Mils of polyester reinforced membrane with a 5.50 oz. polyester fleece backing. For re-roofing installations, the fleece backing serves as a separation or cushioning layer between the membrane and a pre-existing, 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 50 PVC Roofing Membrane can be installed directly over most substrates with excellent results.

FEATURES AND BENEFITS

The Flex FB 50 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 60 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 50 PVC Roofing Membrane is ideal for use as a mechanically attached membrane over approved existing roof surfaces. The fleece backing 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 50 PVC Roofing Membrane offers distinct advantages in adhered applications over lightweight and structural concrete and a variety of insulation and deck types with proven results when adhered with Flex's WB (Water-Based) PVC Substrate Adhesive. The superior wind uplift performance achieved by the Flex FB 50 PVC Roofing Membrane adhered roof system meets Factory Mutual's Class 1-270 over lightweight concrete, which allows for high rise and coastal region installations in the most extreme weather conditions.

APPROVALS

The Flex FB 50 PVC Roofing Membrane exceeds the requirements of ASTM D4434 standard for thermoplastic sheet roofing. The Flex FB 50 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 50 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. Due to the white heat reflective surface, Flex thermoplastic membranes are approved by the Cool Roof Rating Council (CRRC).

FLEX FB 50 PVC ... RELIABLE, TIME TESTED ROOF SYSTEM

The ease of the Flex FB 50 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 50 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 50 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

| <u>Property</u> | <u>Test Procedure</u> | <u>Specification</u> |
|-----------------------------|------------------------------|-----------------------------|
| Color | | white, tan or gray |
| Thickness | ASTM D751 | .050" |
| Thickness over scrim | ASTM D7635 | .025" |
| Breaking Strength (lbf) | ASTM D751 | 375 x 343 |
| Tear Strength (lbf) | ASTM D751 | 58 x 82 |
| Seam Strength (lbf) | ASTM D751 | 297 |
| Elongation | ASTM D751 | 91% x 97% |
| Static Puncture Resistance | ASTM D5602 | Pass |
| Dynamic Puncture Resistance | ASTM D5635 | Pass |
| Heat Aging | ASTM D3045 | >90% |
| Low Temperature Bend | ASTM D2136 | -40°F |
| Water Absorption | ASTM D570 | 1.5%max |
| Linear Dimensional Change | ASTM D1204 | 0.25% |
| Accelerated Weathering | ASTM G155 | Pass |
| Solar Reflectivity | ASTM C1549 | 82% (White) |
| | ASTM C1549 | 68% (Gray) |
| | ASTM C1549 | 69% (Tan) |
| Emissivity | ASTM C1371 | .91 (White) |
| | ASTM C1371 | .87 (Gray) |
| | ASTM C1371 | .85 (Tan) |
| SRI | ASTM E1980 | 109 (White) |
| | ASTM E1980 | 82 (Gray) |
| | ASTM E1980 | 83 (Tan) |

Flex FB PVC membrane is thermoplastic in nature and is certified as conforming to the requirements of ASTM D4434 standard specification for poly (vinyl chloride) sheet roofing and IBC 1504.7.

WARRANTY

The Flex FB 50 PVC Roofing Membrane may receive the manufacturer's standard five (5) year, ten (10) year, or fifteen (15) year guarantee of watertightness.