MEMBRANE



50 mil FiberTite-XT

Product Data

Seaman Corporation's 50 mil FiberTite-XT membrane features an 18 x 18 / 1,100 x 1,300 denier weft reinforced polyester knit fabric, coated with a proprietary compound, utilizing DuPont's™ Elvaloy® Ketone Ethylene Ester (KEE) as the principle polymer in the hybrid vinyl alloy coating.

DESCRIPTION

50 mil FiberTite-XT is a 42-oz sq. yd/nominal 50-mil (1.27 mm) thick membrane and is an Xtra-Tough version of the FiberTite family of membranes. 50 mil FiberTite-XT not only exceeds all requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing, but exceeds the physical properties and performance characteristics of 90-mil competitive products.

Seaman Corporation is vertically integrated, which allows complete control over the manufacturing process from the selection of the yarns, to the engineering, knitting and weaving of the base fabrics to the final coating process. Today, FiberTite Roofing Membranes are the result of Seaman Corporation's 60 years of applied fabric engineering and coating technology.

All FiberTite Roofing Membranes are constructed using high tenacity/heavy weight yarns to create a base fabric reinforcement to impart superior puncture, tensile and tear resistance properties. The base polyester fabrics are primed with a unique and proprietary adhesive coat that lays the foundation to physically bond the KEE coatings to the "fiber" to maximize seam strength and overall membrane performance.

50 mil FiberTite-XT is coated face and back with Seaman Corporation's original "KEE" formulation to provide superior hot air welding characteristics, extreme UV resistance, broad chemical resistance and long-term flexibility and reparability for the installed roofing membrane system. Additionally, 50 mil FiberTite-XT exhibits superior tear, puncture, fungus, algae and flame resistance that make FiberTite Roofing Systems some of the most sustainable roofing systems available.

50 mil FiberTite-XT membrane is manufactured in conventional 74-in and 100-in wide by 100-ft roll goods. 50 mil FiberTite-XT is also available in customized prefabricated roll widths and lengths that incorporate integrated fastening tabs, sealing tabs and also "no-tab" rolls of membrane up to 20-ft wide by 100-ft in length. Field seaming of the membrane is accomplished by fusing the thermoplastic membrane with conventional hot air welding equipment.

PHYSICAL PROPERTIES			
ASTM D6754-02	Mininimum Requirements	50 mil Typical	
Thickness, mm (in.) ASTM D 751	0.79 (0.031)	1.27 (0.050 nom.)	
Thickness over Fiber, mm (in) Optical method (inches)	0.15 (0.006)	.38 (0.015)	
Breaking Strength, N (lbf) ASTM D 751 proc. B - strip	1175 (265)	1779 (400)	
Elongation at Break, % ASTM D 751 - strip	15	18	
Tear Strength, N (lbf) ASTM D 751 Proc. B. Tongue Tear	335 (75)	556 (125)	
Linear Dimensional Change ASTM D 1204 max (%)	1.3	.78	
Fabric Adhesion, N/m (lbf/in) ASTM D 751	225 (13)	no peel	
Retention of Properties after Heat Aging ASTM D 3045 - 176°f/56 days Breaking Strength, strip, % original Elongation at Break, strip, % original	90 90	90 90	
Low Temperature Bend after Heat Aging	-30	-40	
Low Temperature Bend ASTM D 2136 (°f)	-30	-40	
Change in Weight after Exposure in Water D 471 158°f, 166 h, one side only, max. (%)	0.0, +6.0	0.0, +3.7	
Factory Seam Strength, N (lbf) ASTM D 751 Grab Method	1780 (400)	> Fabric Break	
Hydrostatic Resistance, Mpa (psi) ASTM D751	3.5 (500)	5.9 (850)	
Static Puncture Resistance ASTM D 5602 (99 lbf)	pass	pass	
Dynamic Puncture Resistance (J) ASTM D 5635	10	30	



For more information on FiberTite Systems and accessories please call: Seaman Corporation (800) 927-8578 International (330) 262-1111 www.fibertite.com

FSR-1456

SOLUTIONS FiberTite® is a registered trademark of Seaman Corporation.

Subject to the conditions of Approval for a roof covering when installed as described in the current edition of the Approval Guide.



As to an external fire exposure only. See UL directory of products certified for Canada and UL roofing materials and systems directory 34KL, 48P0, 97P9.



50 mil FiberTite-XT

Product Data

A P P L I C A T I O N

50 mil FiberTite-XT Roofing Systems carry extensive FM Global and Underwriters Laboratories approvals. 50 mil FiberTite-XT Roofing Systems can be installed by mechanically fastening the membrane with FiberTite Magnum Fasteners and Stress Plates or adhering the membrane in FTR 190e bonding adhesive to preapproved substrates. 50 mil FiberTite-XT can also be installed in typical ballast configurations using conventional stone or paver ballast.

For specific installation recommendations and requirements, please consult the most current versions of Seaman Corporation's Guide Specifications for the Installation of FiberTite Roofing Systems.



INTELLIGENT		
ROOFING SOLUTIONS		

ASTM D6754-02 Mininimum Requirements 50 mil Typical Accelerated Weathering Practice G 155 / xenon 5000hr >10000hr cracking (Tx magnification) none none cracking (Tx magnification) none none Accelerated Weathering Practice G 154 / UMA 5000hr >10000hr cracking (Tx magnification) none none facility (Type) Discoloration none none Statistics (Type) Sustained Growth no growth none Additional Physical Properties - - - Statistics (Mas2 GammaDification) 2.000+ - ASTM D53, Jausting Strength (ps) Soft Totype - - Astrice G 21, 28 days Discoleration - - Mass Test proc. A (gm/m2/24trsy) - - - </th <th colspan="5">PHYSICAL PROPERTIES (cont.)</th>	PHYSICAL PROPERTIES (cont.)				
Practice G 155 / xenon Control None cracking (7x magnification) none none Accelerated Weathering Practice G 154 / UVA 5000hr >10000hr cracking (7x magnification) none none function (9x magnification) 1,500 2,000+ discource function (9x magnification) 0,00+ function (9x magnification) func	ASTM D6754-02		50 mil Typical		
crazing (7x magnification) none none Accelerated Weathering Practice 6134/UM 5000hr >10000hr cracking (7x magnification) none none file none none none crazing (7x magnification) none none none file station none none none Attractice (521, 28 days biscoloration no growth none Additional Physical Properties file station file station file file file file file file file		5000hr	>10000hr		
Accelerated Weathering Practice 6 154 / U/A Souoohr >10000hr cracking (7x magnification) none none cracking (7x magnification) none none crazing (7x magnification) none none fungi Resistance Practice 6 21, 28 days Sustained Growth Discoloration no growth none no growth none Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 1,500 2,000+ Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 1,500 2,000+ Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 1,500 2,000+ Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 1,500 2,000+ Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 1,500 2,000+ Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 1,500 2,000+ Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 600 2,000+ Abrasion Test, cycles J 3389 H-18 wheel / 1,000 g load 600 2,000+ Astro M252 (Cycles C) Astro D35 (Sycles Resistance (Bb) Astro D35 (Sycles Resistance (Bb) Astro D35 (Sycles Resistance (Bb) Astro D35 (Sycles Resistance (Bb) Astro D35 (Sycles Resistance ML-C-20696C No swelling, cracking or leaking 1,3	cracking (7x magnification)	none	none		
Practice 6 154 / U/A Inclusion Inclusion cracking (7x magnification) none none crazing (7x magnification) none none Fungi Resistance Practice 6 21, 28 days Sustained Growth Discoloration no growth none no growth none Abrasion Test, cycles D 3389 H-18 wheel / 1,000 g load 1,500 2,000+ Additional Physical Properties 1,500 2,000+ Tensile Strength (ps) ASTM 0751, Grab Method >9500 Breaking Strength (ps) ASTM 0751, Grab Method 000 Puncture Resistance (bs) ASTM 0751, Grab Method 700 Vater Vapor Transmission ASTM E86 proc. A (gm/m2/24hrs) 1.3 Shore A Hardness ASTM 02240 1.3 Plame Resistance No swelling, cracking or leaking 001 High Temperature Dead Load ASTM 0751 (50 lbs, 160°F, 4 hrs) 001 Solar Reflectance ASTM E93 ASTM E1918 79% 83% Solar Reflectance ASTM E93 ASTM 0751 (50 lbs, 160°F, 4 hrs) 95% 83% Solar Reflectance ASTM E93 ASTM E1918 79% 83% S	crazing (7x magnification)	none	none		
crazing (7x magnification) none none Fungi Resistance C 21, 28 days Sustained Growth none no growth none none Abrasion Test, cycles Discoloration 1,500 2,000+ Additional Physical Properties 1,500 2,000+ Additional Physical Properties > 9500 Tensile Strength (psi) ASTM 0582 600 Astm 251, Grab Method 600 Puncture Resistance (bs) ASTM 0751, Bursting Strength 300 ASTM 0751, Grab Method 700 Mater Vapor Transmission ASTM 0751, Bursting Strength 307 ASTM 0751, Bursting Strength 31.3 Shore A Hardness ASTM 07240 87 Shore A Hardness 9 ASTM 02240 0 9 Flame Resistance MIL-C-20696C none Mul-C-20696C/Type II Class 2 none No swelling, cracking or leaking none High Temperature Dead Load ASTM 0751 (50 lbs, 160°F, 4 hrs)<		5000hr	>10000hr		
Fungi Resistance Fungi Resistance Growth noneno growth noneno growth noneAbrasion Test, cycles D 3389 H-18 wheel / 1,000 g load1,5002,000+Additional Physical Properties2,000+Tensile Strength (psi) ASTM D882> 9500Breaking Strength (bs) ASTM D751, Bursting Strength600Puncture Resistance (bs) ASTM D751, Bursting Strength700ASTM D751, Bursting Strength1.3Puncture Resistance (bs) ASTM D751, Bursting Strength87ASTM D751, Bursting Strength1.3Shore A Hardness87ASTM D262passImage Resistance MIL-C-20696C / Type II Class 2passOil Resistance, MIL-C 20696C No swelling, cracking or leakingnoneHigh Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 ms)79% 83%Solar Reflectance (3 yr aged) ASTM E1918Un-Cleaned 85%Solar Reflectance (3 yr aged) ASTM C1371Un-Cleaned 85%Solar Emmittance (3 yr aged) ASTM C1371Un-Cleaned 85%	cracking (7x magnification)	none	none		
Practice G 21, 28 days Discoloration Import Import Abrasion Test, cycles 1,500 2,000+ 3339 H-18 wheel / 1,000 g load	crazing (7x magnification)	none	none		
D 3389 H-18 wheel / 1,000 g load Local Additional Physical Properties Tensile Strength (psi) ASTM D882 > 9500 Breaking Strength (bs) ASTM D751, Grab Method 600 Puncture Resistance (bbs) ASTM D751, Bursting Strength 700 ASTM D751, Bursting Strength 700 Water Vapor Transmission ASTM D751, Bursting Strength 700 Shore A Hardness ASTM D2240 87 Hame Resistance ML-C-20089C / Type II Class 2 pass OII Resistance, MIL-C-20696C No swelling, cracking or leaking none Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking pass High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs) pass Energy Attributes (Color DC196 Off-White) 83% Solar Reflectance (3 yr aged) ASTM C1549 Un-Cleaned 68% Cleaned 78% Solar Enmittance (3 yr aged) ASTM C1549 Un-Cleaned 78% 25% 85%		-	-		
Tensile Strength (psi) ASTM D882 > 9500 Breaking Strength (lbs) ASTM D751, Grab Method 600 Puncture Resistance (lbs) ASTM D751, Bursting Strength 700 Water Vapor Transmission ASTM E96 proc. A (gn/m2/24hrs) 1.3 Shore A Hardness ASTM D2240 87 Hame Resistance NL-C-20066C Type II Class 2 pass Oil Resistance, MIL-C-20666C No swelling, cracking or leaking none Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking pass High Temperature Dead Load ASTM D751 (S0 lbs, 160°F, 4 hrs) pass Solar Reflectance ASTM E903 ASTM E1918 79% 83% Solar Reflectance (3 yr aged) ASTM C1574 Un-Cleaned 66% Cleaned 78% 85% Solar Enmittance (3 yr aged) ASTM C1371 Un-Cleaned 66% Cleaned 78% 81%		1,500	2,000+		
ASTM D882 1.0000 Breaking Strength (Ibs) ASTM D751, Grab Method 600 Puncture Resistance (Ibs) ASTM D751, Bursting Strength 700 Water Vapor Transmission ASTM E96 proc. A (gm/m2/24hrs) 1.3 Shore A Hardness ASTM D2240 87 Flame Resistance (Ibs) ASTM D2240 87 Flame Resistance NIL-C 20696C No swelling, cracking or leaking none Vil Resistance, MIL-C 20696C No swelling, cracking or leaking none High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs) pass Energy Attributes (Color DC196 Off-White) 79% 83% Solar Reflectance (3 yr aged) ASTM C1549 Un-Cleaned 66% Cleaned 78% Solar Enmittance (3 yr aged) ASTM C1371 Un-Cleaned 66% Cleaned 78% Solar Enmittance (3 yr aged) ASTM C1371 Un-Cleaned 61% Cleaned 81%	Additional Physical Properties				
ASTM D751, Grab Method 000000000000000000000000000000000000		> 9500			
ASTM D751, Bursting Strength 1.0 Water Vapor Transmission ASTM E96 proc. A (gm/m2/24hrs) 1.3 Shore A Hardness ASTM D2240 87 Flame Resistance MIL-C-20696C / Type II Class 2 pass Oil Resistance, MIL-C 20696C No swelling, cracking or leaking none Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking none High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs) pass Energy Attributes (Color DC196 Off-White) 83% Solar Reflectance (3 yr aged) ASTM C1549 Un-Cleaned 66% Cleaned 78% Solar Emmittance (3 yr aged) ASTM C1371 Un-Cleaned 74% Cleaned 81%		600			
ASTM E90 proc. A (gm/m2/24hrs)		700			
ASTM D2240 Difference Flame Resistance MIL-C-20696C / Type II Class 2 pass Oil Resistance, MIL-C 20696C No swelling, cracking or leaking none Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking none High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs) pass Energy Attributes (Color DC196 Off-White) pass Solar Reflectance (3 yr aged) ASTM C1549 Un-Cleaned 66% Cleaned 78% Solar Emmittance (3 yr aged) ASTM C1371 Un-Cleaned 85% Cleaned 81%		1.3			
MIL-C-20696C / Type II Class 2 Oil Resistance, MIL-C 20696C No swelling, cracking or leaking Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs) Energy Attributes (Color DC196 Off-White) Solar Reflectance ASTM E903 ASTM E1918 Solar Reflectance (3 yr aged) ASTM C1549 Solar Emmittance (3 yr aged) ASTM C1371 Solar Emmittance (3 yr aged) ASTM C1371		87			
No swelling, cracking or leaking Hydrocarbon Resistance, MIL-C-20696C No swelling, cracking or leaking High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs) Energy Attributes (Color DC196 Off-White) Solar Reflectance ASTM E903 ASTM E1918 Solar Reflectance (3 yr aged) ASTM C1549 Solar Emmittance (3 yr aged) ASTM C1371 Solar Emmittance (3 yr aged) ASTM C1371		pass			
No swelling, cracking or leaking High Temperature Dead Load ASTM D751 (50 lbs, 160°F, 4 hrs) Energy Attributes (Color DC196 Off-White) Solar Reflectance ASTM E903 ASTM E1918 Solar Reflectance (3 yr aged) ASTM C1549 Solar Reflectance ASTM E408 ASTM C1371 Solar Emmittance (3 yr aged) ASTM C1371 Cleaned ASTM C1371		none			
ASTM D751 (50 lbs, 160°F, 4 hrs) Image: Proceeding and the second seco		none			
Solar Reflectance ASTM E903 ASTM E1918 79% 83% Solar Reflectance (3 yr aged) ASTM C1549 Un-Cleaned 66% Cleaned 78% Solar Emmittance ASTM E408 ASTM C1371 95% 85% Solar Emmittance (3 yr aged) ASTM C1371 Un-Cleaned 74% Cleaned 81%		pass			
ASTM E1918 B33% Solar Reflectance (3 yr aged) Un-Cleaned ASTM C1549 Un-Cleaned Solar Emmittance ASTM E408 95% ASTM C1371 85% Solar Emmittance (3 yr aged) Un-Cleaned ASTM C1371 81%	Energy Attributes (Color DC196 Off-White)				
ASTM C1549 66% 78% Solar Emmittance ASTM E408 ASTM C1371 95% 85% Solar Emmittance (3 yr aged) ASTM C1371 Un-Cleaned 74% Cleaned 81%					
ASTM C1371 85% Solar Emmittance (3 yr aged) ASTM C1371 Cleaned Cleaned 74% 81%					
ASTM C1371 74% 81%					
Energy Star yes					
	Energy Star	yes			
Solar Reflective Index (SRI) 98.54 ASTM £1980		98.54			
LEED 2.2 - Heat Island Effect 1 Credit SS Credit 7.2		1 Credit			