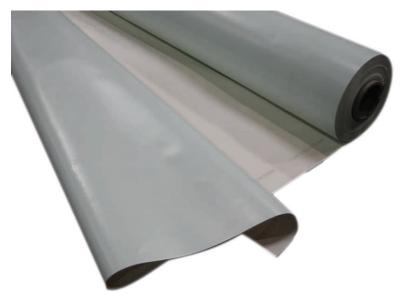


RL FIBERTITE MEMBRANE-SM

For Ultratherm Xtreme FiberTite Membrane System

Use the FiberTite -SM Membrane on up-stands and around corners.



FiberTite Membrane SM

DESCRIPTION

The FiberTite Membrane is the result of Seaman Corporation's 75 years of applied fabric engineering and coating technology.

Each FiberTite Roofing Membrane is crafted using high tenacity/heavy weight yarns, creating a robust base fabric reinforcement that imparts outstanding properties, including superior puncture, tensile, and tear resistance. The base polyester fabrics are primed with a unique adhesive coat, forming a strong bond that maximises seam strength and overall membrane performance.

FiberTite SM features Seaman Corporation's original "KEE" formulation, coating the face of the membrane. This special formulation offers unparalleled benefits, such as superior

hot air welding characteristics, extreme UV resistance, broad chemical resistance, and long-term flexibility and separability for the installed roofing membrane system.

Field seaming of the membrane is achieved by fusing the thermoplastic membrane using conventional hot air welding equipment, ensuring secure and reliable connections.

Available in 1.88m x 30.48m rolls.



COMPOSITION

FiberTite SM features an 18 x 19 / 840 x 1,000 denier weft reinforced polyester knit fabric, coated with a proprietary compound, utilising DuPont's TM Elvaloy® Ketone Ethylene Ester (KEE) as the principle polymer in the hybrid alloy coating.

FiberTite SM not only meets or exceeds the minimum physical property requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing, it also exceeds the physical properties and performance characteristics of all 1.5 mm thick 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 75 years of applied fabric engineering and coating technology.

APPLICATION

FiberTite SM should be used for detailing timber plinths, internal sumps, and circle patches.

FiberTite SM membranes can be fully adhered or mechanically attached. FiberTite SM is adhered using RL Adhesive on properly prepared, load bearing substrates that provide sufficient wind uplift for the building type and location.

Refer to RoofLogic specifications for correct installation processes and contact RoofLogic for technical assistance.

FiberTite SM membranes can also be mechanically attached utilising a range of mechanical fixing components supplied by RoofLogic. Contact RoofLogic for specific fixing plans to ensure that the fixing design and substrate will achieve the required wind uplift resistance.



RoofLogic FiberTite SM being adhered to plywood canopy.

Adhesive Compatibility				
Substrate	Primer	Adhesive	Coverage	
Plywood	190e Primer/or two coat		222 (52 %)	
Concrete	application	220/190 KEE	220 (50m²) 190KEE (25m²)	
RL Roof-board HDP/LW	N/A			
RL PIR CF				







CR Grey



PHYSICAL PROPERTIES

ASTM D6754-02	Minimum Requirements	FiberTite SM Typical
Thickness, mm ASTM D 751	0.79	0.91
Thickness over Fiber, mm Optical method	0.18	0.23
Breaking Strength, N ASTM D 751 proc. B – strip	1499	1557
Elongation at Break, % ASTM D 751 – strip	15	18
Tear Strength, N ASTM D 751 Proc. B. Tongue Tear	338	445
Linear Dimensional Change ASTM D 1204 max (%)	1.3	0.63
Fabric Adhesion, N/m ASTM D 751	3330	no peel
Retention of Properties after Heat Aging ASTM D 3045 – 80oC/56 days Breaking Strength, strip, % original Elongation at Break, strip, % original	90 90	90 90
Low Temperature Bend after Heat Aging	-30	-30
Low Temperature Bend ASTM D 2136 (°)	-30	-30
Change in Weight after Exposure to Water D 471 70oC, 166 h, one side only, max (%)	0.0,+6.0	0.0, +3.7
Factory Seam Strength, N ASTM D 751 Gram Method	1955	>Fabric Break
Hydrostatic Resistance, MPa ASTM D 751	4.1	4.8
Static Puncture Resistance ASTM D 5602	pass	pass
Dynamic Puncture Resistance (J) ASTM D 5635	10	20
Accelerated Weathering Practice G 155 / xenon	5000 hr	>10000 hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none



PHYSICAL PROPERTIES

ASTM D6754-02	Minimum Requirements	FiberTite SM Typical
Accelerated Weathering Practice 154 / UVA	5000 hr	>10000 hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none
Fungi Resistance Practice G 2, 28 days Sustained Growth Discolouration	no growth none	no growth none
Abrasion Test, cycles D 3389 H-18 wheel / 1000 g load	1,500	2,000+

Additional Physical Properties		
Tensile Strength ASTM D882 (psi)	8500	
Breaking Strength ASTM D751, Grab Method	2000 N	
Puncture Resistance ASTM D751, Bursting Strength	1550 N	
Water Vapour Transmission ASTM E96 proc. A (gm/m2/24hrs)	1.3	
Shore A Hardness ASTM D2240	87	
Test for Flammability of Materials AS1530.2-1993	Flammability Index 1	
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 D 751 (23kg/70oC/4hrs)	pass	

Energy Attributes		
Initial Solar Reflectance ASTM C1549	0.69	
Solar Reflectance (3 yr aged) ASTM C1549	.61	
Initial Thermal Emittance ASTM C1371	0.89	
Thermal Emittance (3 yr aged) ASTM C1371	.89	
Solar Reflective Index (SRI) ASTM E1980	84	
Solar Reflective Index (SRI) (3 yr aged) ASTM E1980	73	
Energy Star	YES	
LEED v4 - Heat Island Reduction SS Credit	1 Credit	

