

RL FIBERTITE MEMBRANE-FLEECEBACK

FOR ULTRATHERM XTREME FIBERTITE MEMBRANE SYSTEMS

DESCRIPTION

FiberTite membrane is manufactured by Seaman Corporation. Seaman Corporation is vertically integrated, allowing for 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.

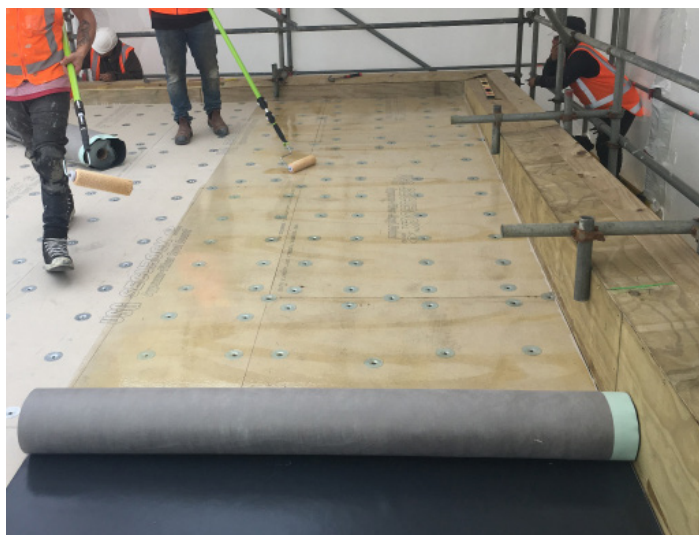
FiberTite Fleece Back (FB) is coated on the face with Seaman Corporation's original "KEE" formulation to provide superior hot air welding characteristics, extreme UV resistance, broad chemical resistance and long-term flexibility and reparability for the installed roofing membrane system. The proven performance and durability of FiberTite ensures FiberTite has the lowest life cycle cost of any roofing membrane.

ADVANTAGES

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

FiberTite FB exceeds the minimum physical property requirements enumerated in ASTM D6754-02 Standard Specification for Ketone Ethylene Ester (KEE) Based Sheet Roofing. It exceeds the physical properties and performance characteristics of all competitor products at 1.5mm thickness.

The FiberTite FB membrane incorporates 120gm/m² non-woven polyester felt, heat bonded to the back side of the membrane with a 75mm selvedge edge for field welding. FiberTite-SM-FB fleece back is manufactured in conventional 1.85 metre by 24.40 metre roll dimensions.



Rooflogic Fleeceback being installed over RL Roof Board HD and adhered with RL FTR 490u adhesive.

APPLICATION

FiberTite FB Roofing Systems are installed by adhering the fleece back membrane to one of the following approved membrane adhesives:

- FTR 490e water-borne elastomeric adhesive
- FTR 490u solvent free polyurethane adhesive
- FTR 690e gun-grade low foam polyurethane adhesive

(refer to adhesive data sheets for substrate options/conditions, coverage rates, environmental conditions)

For specific installation recommendations and requirements, refer to RoofLogic Specifications.

For project specifications and technical assistance please contact RoofLogic.

RL FIBERTITE MEMBRANE (FB)

PHYSICAL PROPERTIES

ASTM D6754-02	MINIMUM REQUIREMENTS	FIBERTITE FB 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	18	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	225	No Peel
Retention of Properties after Heat Aging ASTM D 3045 – 80oC/56 days	90	90
Breaking Strength, strip, % original	90	90
Elongation at Break, strip, % original		
Low Temperature Bend after Heat Aging	-30	-30
Low Temperature Bend ASTM D 2136 (oC)	-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	5000hr	>10000hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none
Accelerated Weathering Practice 154 / UVA	5000hr	>10000hr
Cracking (7x magnification)	none	none
Crazing (7x magnification)	none	none
Fungi Resistance Practice G 2, 28 days		
Sustained Growth	no growth	no growth
Discolouration	none	none
Abrasion Test, cycles D 3389 H-18 wheel / 1000 g load	1500	1500+

PHYSICAL PROPERTIES

ADDITIONAL PHYSICAL PROPERTIES	
Tensile Strength ASTM D882	586 Bar
Breaking Strength ASTM D751, Grab Method	2000N
Puncture Resistance ASTM D751, Bursting Strength	1550N
Water Vapour Transmission ASTM E96 proc. A (gm/m ² /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 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