

Sure-Seal SA 1.14



GENERAL

Sure-Seal 45-mil thick (1.14 mm) roofing membranes are factory fabricated, Ethylene Propylene Diene Terpolymer (EPDM) based elastomeric homogenous roof coverings which may be used for new single-ply roof construction and reroofing applications. Membranes are available in widths up to 50' (15 m) and lengths up to 200' (61 m). Custom dimensions are also available. Fire Retardant (FR) membranes are specially formulated to inhibit spread of flame and meet or exceed code body testing criteria for fire retardant roofing membranes.

CAUTIONS AND WARNINGS

- Use proper stacking procedures to ensure sufficient stability of the materials.
- Exercise caution when walking on wet membrane. Membranes are slippery when wet.

INSTALLATION

For Design A, Fully-Adhered Roofing System: Insulation is mechanically attached to the roof deck. The substrate and membrane are coated with Carlisle Bonding Adhesive. The membrane is then rolled into place and brushed down. Splicing Cement and In-Seam Sealant are applied to the splice area and Lap Sealant is used on the splice edge. As an alternate, HP-250 and SecurTAPE may be used for splicing.

For Design B, Ballasted Roofing System: Insulation is loose-laid over roof deck. Membrane is loose-laid over insulation and secured with a minimum 10 lbs. (4.5 Kg) of ballast per square foot. Design C is a similar system with the insulation installed on top of the membrane. Splicing Cement and In-Seam Sealant are applied to the splice area and Lap Sealant is used on the splice edge. As an alternate, HP-250 or LV-600 Primer and SecurTAPE may be used for splicing.

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TYPICAL PROPERTIES AND CHARACTERISTICS			
Physical Property	Test Method	ASTM SPEC. (Pass)	.045 Standard
Tolerance on Nominal Thickness, %	ASTM D 412	± 10	± 10
Weight, 1bm/ft 2 (kg/m ²)			0.26 (1.3)
Tensile Strength, min, psi (Mpa)	ASTM D 412	1305 (9)	1550 (10.7)
Elongation, Ultimate, min, %	ASTM D 412	300	480
Tear Strength, min, lbf/in (kN/m)	ASTM D 624 (Die C)	150 (26.3)	200 (35.0)
Factory Seam Strength, min.	Modified ASTM D 816	Membrane Rupture	Membrane Rupture
Resistance to Heat Aging* Properties after 4 weeks @ 240 °F (116 °C)	ASTM D 573		
Tensile Strength, min, psi (MPa)	ASTM D 412	1205 (8.3)	1500 (10.3)
Elongation, Ultimate, min, %	ASTM D 412	200	225
Tear Strength, min, lbf/in (kN/m)	ASTM D 624	125 (21.9)	215 (37.6)
Linear Dimensional Change, max, %	ASTM D 1204	± 10	-0.4
Ozone Resistance* Condition after exposure to 100 pphm Ozone in air for 168 hours @ 104 °F (40 °C) Specimen is at 50% strain	ASTM D 1149	No Cracks	No Cracks
Brittleness Temp., max, deg. F (deg. C)*	ASTM D 746	-49 (-45)	-67 (-55)
Resistance to Water Absorption* After 7 days immersion @ 158 °F (70 °C) Change in mass, max, %	ASTM D 471	+8, -2	+2.0
Water Vapor Permeance* max, perms	ASTM E 96 (Proc. B or BW)	0.10	0.05
Resistance to Outdoor (Ultraviolet) Weathering* Xenon-Arc, 7560 kJ/m ² total radiant exposure at 0.70 W/m ² irradiance, 80 °C black panel temp.	ASTM G 155	No Cracks No Crizzling	No Cracks No Crizzling

* Not a Quality Control Test due to the time required for the test or the complexity of the test. However, all tests are run on a statistical basis to ensure overall long-term performance of the sheeting.