

TECHNICAL INFORMATION SHEET

RubberGard™ EPDM SA

Item Description

.060" x 10' x 100'

Item Number

W56L61010SA



Product Information

Description:

Firestone RubberGard EPDM SA membrane with Secure Bond™ Technology is designed to be the next generation of self-adhered roof system application. Secure Bond Technology is factory applied which helps ensure uniform adhesion across the entire membrane, creating a powerful bond with the substrate. This advanced technology not only improves installation speed over traditional fully adhered applications, but also widens the installation window with the ability to be installed down to 20 °F (-7 °C). With no VOCs, RubberGard EPDM SA with Secure Bond Technology is an excellent solution for all your fully adhered roofing needs.

RubberGard EPDM SA membrane meets or exceeds all the requirements for ASTM D 4637 for Type I non-reinforced EPDM single-ply roofing membranes.

Membrane Preparation:

1. Substrates must be clean, dry and free of foreign material such as grease and any debris which could inhibit adhesion. This may require cleaning with a broom or blower.
2. Fasten insulation per current Firestone technical specifications to provide a proper substrate.
3. Install RubberGard EPDM SA membrane only when ambient and substrate temperatures are minimum 20 °F (-7 °C) and rising. Do not install RubberGard EPDM SA below this minimum temperature.
4. Unroll and position the membrane over the substrate to achieve the desired alignment and overlaps. Allow membrane to relax before positioning and adhering. **NOTE: Once membrane has fully relaxed, follow field membrane and roof edge membrane application methods below to adhere the membrane to the approved substrate.**

Method of Application:

Field Membrane Application (Steps 1-5):

1. Once the membrane has relaxed in place a minimum of 30 minutes (longer in colder weather), and the seam positions are properly aligned, carefully fold back the leading edge of the membrane at one end to expose the release liner without disturbing the original position of the membrane.
2. Starting from the center split of the exposed release liner, remove the liner on both sides of the split at a 45° angle back beyond the membrane edge, making sure to pull enough of the release liner to hold below the membrane. Remove approximately 5' (1.5 m) of release liner from one end of the sheet and adhere the membrane to the substrate. The release liner removed should be enough to extend out beyond both edges of the membrane. **NOTE: Do not fold the length of the roll in half.**
3. Keeping the membrane flat and secured, and the seam overlap aligned, continue removing the release liner at a 45° angle along the entire length of the entire sheet (up to 100'). Pulling the release liner at a higher angle can cause the sheet to move and may trap air. The two halves of the release liner should be pulled out at the same time by two people. Keep the release liner as close to the roof surface as possible during removal. **NOTE: Removal of the liner and any handling of the exposed SA adhesive should be done by two persons minimum.**

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Field Membrane Application (Steps 1-5) Continued:

4. To initiate adhesion, use a stiff bristled broom and apply downward pressure across the width of the sheet working toward the sheet edge. Repeat the process for the other half of the membrane by starting from the center and brooming toward the sheet edge.
5. Roll the installed membrane with a weighted roller (5 lb per lineal inch) across the width of the membrane to ensure full contact with the substrate. **NOTE: Do not roll membrane in place with a weighted roller if installed over ISOGARD™ HD or ISOGARD CG.**

Roof Edge (Gravel Stop, Gutter Edge) Membrane Application (Steps 1-6):

1. Align the membrane in position along the roof edge and allow the membrane to relax in place a minimum of 30 minutes (longer in colder weather).
2. To prepare the membrane for installation at the roof edge, carefully fold one end of the membrane back approximately 10' (3.5 m). Fold the membrane from one end and do not fold along the length of the roll.
3. Starting with the outside (roof edge) portion of the release liner, carefully pull it underneath the membrane, back towards the field of the roof at a 45° angle to expose the SA adhesive without disturbing the original position of the membrane. Next, pull the inside portion of the release liner, making sure to maintain a 12" wide minimum separation between the two liner halves. Back-roll the exposed SA section (minimum 10') into position onto the substrate without trapping any air or allowing wrinkles beneath the sheet. **NOTE: Removal of the liner and any handling of the exposed SA adhesive should be done by two people minimum.**
4. Keeping the release liner as close to the roof surface as possible and maintaining a 10' (minimum) space between the two liner halves, pull both halves of the liner at a 45° angle along the length of the roof edge. Pulling the release liner at a higher angle can cause the sheet to move and may trap air.
5. To initiate adhesion, use a stiff bristled broom and apply downward pressure across the width of the sheet working toward the sheet edge. Repeat the process for the other half of the membrane by starting from the center and brooming toward the sheet edge.
6. Roll the installed membrane with a weighted roller (5 lb per lineal inch) across the width of the membrane to ensure full contact with the substrate. **NOTE: Do not roll membrane in place with a weighted roller if installed over ISOGARD HD or ISOGARD CG.**

Seaming:

NOTE: It is very important that both surfaces are clean and no moisture is present on the splicing surfaces.

1. Side Laps - Fold back the membrane at the side lap to expose the unadhered selvage edge of the top sheet and the bottom surface of the field seam. Prime the area to receive QuickSeam™ 3" Splice Tape with an approved Firestone primer per current specifications. Use the touch/push test to verify the primer has flashed off then apply the QuickSeam tape per Firestone "QuickSeam Splice Tape Application Instructions".
2. End Laps – Because the Secure Bond Adhesive extends the entire length of the roll, adjoining end laps must be stripped in. Prime and overlap the butt ends of EPDM SA membrane a minimum of 3". Apply additional primer 4" to either side of the overlap. After the primer has flashed off, strip in the entire end lap with 6" Batten Cover Strip.
3. Detailing - Install t-joint patches at all Batten Cover Strip overlaps, tape laps, etc., and apply a bead of Lap sealant as required by current Firestone specifications.

Storage:

- Warehouse membrane in a clean dry location.
- Membrane stored on jobsite must be kept dry.
- Material must be a minimum of 20 °F (-7 °C) prior to installation.
- Store away from sources of punctures and physical damage.
- Make certain the structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources.

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Shelf Life:

18 Months when stored between 60 °F (16 °C) and 80 °F (27 °C) out of direct sunlight.

Precautions:

- Take care when moving, transporting and handling to avoid sources of punctures and physical damage.
- Removal of the plastic release liner from the adhesive backing may create a static electric charge; care should be used when removing and handling the release liner.
- Refer to Safety Data Sheets (SDS) for additional safety information.

Typical Properties- Secure Bond Pressure Sensitive Adhesives:

Property	Test Method	Units	Performance Min.	Typical Values
Color	---	---	---	Clear
Nominal Thickness	ASTM E 408-71	in (mm)	N/A	0.007 (0.180)
Weight	---	lb/ft ² (kg/m ²)	---	0.040 (0.002)

Typical Properties

Property	Test Method	Units	Performance Minimum	Typical Performance 60 mil
Overall Thickness	D 412	in (mm)	0.0504 (1.372)	0.059 (1.499)
Tensile Strength	D 412 (Die C)	Psi (MPa)	1305 (9.0)	1454 (10.0)
Elongation, Ultimate	D 412 (Die C)	%	300	622
Tensile Set	D 412, Method A (Die C)	%	10	2.18
Tear Resistance	D 624 (Die C)	lbf/in (kN/m)	159 (26.3)	219 (38.4)
Brittleness Point	D 2137	°F (°C)	-49 (-45)	-49 (-45)
Ozone Resistance, no cracks	D 1149	---	---	Pass
Heat Aging:	D 573			
Tensile Strength	D 412 (Die C)	Psi (MPa)	1205 (8.3)	1490 (10.3)
Elongation, Ultimate	D 412	%	200	322
Tear Resistance	D 624	lbf/in (kN/m)	125 (21.9)	179 (31.3)
Linear Dimensional Change	D 1204	%	± 1.0	-0.32
Water Absorption	D 471	%	+8, -2	+1.51
Weight	---	lb/sqft	---	.47 lb/sqft
Factory Seam Strength	D 816 Method B (Modified)	lbf/in (kN/m)	50 (8.8) or Sheet Failure	Sheet Failure
Weather Resistance:				
Visual Inspection	D 518	---	Pass	Pass
PRFSE	D 518	%	30	53
Elongation, Ultimate	D 412 (Die C)	%	200	255
Air Permeance (Material)	E 2178*	ft ³ /ft ² (L/(s·m ²))	<0.004 (0.02)	Pass

*The ASTM 2178 values listed are for the air permeance of the RubberGard EPDM SA membrane component only. For use of the product as a component in an air barrier assembly, please consult your Firestone Building Systems Advisor (BSA), Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details.

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Substrates

Acceptable Substrates	Primer Req'd	Acceptable Application Temperatures	Special Application Considerations / Notes
ISOGARD GL	No	20 - 120 °F (-7 – 49 °C)	
ISOGARD HD	No	20 - 120 °F (-7 – 49 °C)	Do not roll in place with weighted roller
ISOGARD CG	No	20 - 120 °F (-7 – 49 °C)	Do not roll in place with weighted roller
Poured in Place or plank Gypsum	No	20 - 120 °F (-7 – 49 °C)	
Structural Concrete	No	20 - 120 °F (-7 – 49 °C)	Must be clean, dry and properly cured prior to application
Lightweight Concrete	No	20 - 120 °F (-7 – 49 °C)	Use on clean, dry and properly cured cellular lightweight concrete only, not acceptable with lightweight aggregate concrete
DensDeck*	No	20 - 120 °F (-7 – 49 °C)	
DensDeck Prime	No	20 - 120 °F (-7 – 49 °C)	
Securock**	No	20 - 120 °F (-7 – 49 °C)	
DexCell***	No	20 - 120 °F (-7 – 49 °C)	
Plywood	No	20 - 120 °F (-7 – 49 °C)	Check local code for acceptance of direct application
OSB Board	No	20 - 120 °F (-7 – 49 °C)	Check local code for acceptance of direct application
CMU / Masonry	No	20 - 120 °F (-7 – 49 °C)	Must be clean & dry prior to application. Firestone recommends testing a small area before application to determine if a primer is required.

*DensDeck is a registered trademark of the G-P Gypsum Corporation

**Securock is a registered trademark of the USG Corporation

LEED® Information:

Post Consumer Recycled Content: 0%

Post Industrial Recycled Content: 3-5%

Manufacturing Location: Tuscumbia, AL

NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



Please contact Firestone Technical Services Department at 1-800-428-4511 for further information.

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