

TECHNICAL INFORMATION SHEET

FullForce™ EPDM

**Item Description**

.060" x 10' x 100'
(1.5 mm x 3.05 m x 30.5 m)

Item Number

W56L61010FF

Product Information

Description:

Firestone FullForce EPDM membrane with Secure Bond™ Technology is the next generation of self-adhered roof system application. Secure Bond Adhesive is factory applied which ensures 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 emitted during field membrane application, FullForce EPDM with Secure Bond Technology is a reliable solution for all your fully adhered roofing needs.

Method of Application:

Approved 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. An acceptable Firestone Primer is required for seaming, detailing, sealant work and vertical flashings, but no bonding adhesives are required for field membrane attachment.

1. Prepare substrate and secure insulation per current Firestone technical specifications.
2. Install FullForce EPDM membrane only when membrane, substrate and ambient temperatures exceed 20 °F (-7 °C) and rising. Do not install FullForce EPDM membrane below this minimum temperature.
3. Unroll and position the membrane over the substrate to achieve the desired alignment and seam overlaps. Allow the membrane to relax a minimum of 30 minutes before final positioning and adhering.
4. Position adjoining sheets in shingle fashion or so that seams run parallel to the flow of water, and that all side and end laps provide a minimum 3" (76.2 mm) overlap.
5. Apply an acceptable Firestone Primer (QuickPrime™ Plus, QuickPrime Plus LVOC, Single-Ply QuickPrime Primer or Single-Ply LVOC Primer) to all EPDM lap surface areas to receive FullForce EPDM.
6. All membrane and flashing splices require the application of seam edge treatment using FullForce Sealant.
7. An acceptable Firestone Primer (as noted above) is required for vertical surfaces.
8. Refer to the FullForce EPDM Application Guide and associated Technical Information Sheets for additional installation information.

Storage:

- Warehouse membrane in a clean dry location.
- FullForce EPDM membrane stored on jobsite must be kept dry.
- FullForce EPDM membrane 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.

Shelf Life:

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

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Precautions:

- Take care when moving, transporting and handling to avoid sources of punctures and physical damage.
- Removal of the polymeric 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.

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.



Typical Properties - Secure Bond Pressure Sensitive Adhesive

Property	Test Method	Units	Performance Min.	Typical Values
Color	---	---	---	Clear
Nominal Thickness	ASTM E 408-71	in (mm)	N/A	0.007 (0.178)
Weight	---	lb/ft ² (kg/m ²)	---	0.040 (0.002)

Acceptable Substrates

Substrate	Primer Req'd	Acceptable Application Temperatures	Special Application Considerations / NOTE
ISO 95+™ GL	No	20 - 120 °F (-7 - 49 °C)	
ISOGARD™ HD	No	20 - 120 °F (-7 - 49 °C)	Broom only, do not roll in place with weighted roller
RESISTA™	No	20 - 120 °F (-7 - 49 °C)	Broom only, do not roll in place with weighted roller
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)	
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.
Vertical Substrates	Yes	20 - 120 °F (-7 - 49 °C)	Apply an acceptable Firestone primer to vertical substrates.

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

**Securock is a registered trademark of the USG Corporation

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Typical Properties (Meets or exceeds ASTM D 4637, Type I non-reinforced EPDM Single-Ply roofing membranes)

Property	ASTM Standard	Performance Minimum	Typ. Values -60 mil
Thickness, minimum, Sheet-overall	D 412	60 mil - 0.050" (1.372 mm)	0.059 (1.499)
Tensile Strength, min.	D 412 (Die C)	1305 psi (9.0 MPa)	1450 (10.0)
Dynamic Puncture Resistance	D 5635 / D 5635M	5 J min @ 73.4 ± 4° Flow slop	pass
Static Puncture Resistance	D 5602 / D 5602M	44.1 lbf (20 kg)	pass
Elongation, Ultimate, min.	D 412 (Die C)	300%	475
Tensile set, max.	D 412, Method A (Die C)	10%	2.0
Tear Resistance, min.	D 624 (Die C)	150 lbf/in (26.27 kN/m)	195 (34.1)
Brittleness point, max.	D 2137	-49 °F (-45 °C)	-49 (-45)
Ozone resistance, no cracks	D 1149	pass	pass
Heat Aging: Tensile Strength, min. Elongation, ultimate, min. Tear resistance, min. Linear dimensional change, max.	D 573 D 412 (Die C) D 412 D 624 D 1204	1205 (8.3) 200% 125 lbf/in (21.9 kN/m) ±1.0%	1490 (10.3) 320 179 (31.3) -0.3
Water absorption, max., mass	D 471	+8%, -2%	+1.5
Factory Seam Strength, min.	D 816 Method B (modified)	50 lbf/in (8.8 kN/m) or Sheet Failure	Sheet Failure
Weather Resistance: Visual inspection PRFSE, min. Elongation, ultimate, min.	G 151 / D 518 G 151 / D 518 G 155 / D 412 (Die C)	No cracks or crazing 30 200	Pass 53 255
Air Permeance (Material)	E2178*	<0.004 (0.02)	pass

*1. The ASTM 2178 values listed above are for the air permeance of the RubberGard EPDM Membrane component only.

- When system design includes an air barrier, please consult your Firestone Technical Services Advisor for additional roof system securement enhancements.
- Consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for requirements regarding the selection and use of an appropriate air barrier material, and its installation into the building envelope.

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

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.