

Product Description

ExoAir® 111 is a composite 24-mil sheet designed for use as the membrane or as a component of an air barrier system. ExoAir 111 is 20 mils of high-performance butyl laminated to 4 mils of metalized high-density polypropylene film and a siliconized release liner.

Basic Uses

ExoAir 111 is an impermeable, self-adhered sheet designed to be applied to exterior cavity walls in order to mitigate air infiltration/exfiltration, vapor transmission and water penetration. Typically applied to exterior sheathing boards and concrete block, ExoAir 111 can also be applied to poured concrete, steel and wood based substrate as well as serve as detailing or a transition membrane into window and door openings. ExoAir 111 is designed to be installed when both the air and surface temperature are 10 °F (-12 °C) and rising.

Features and Benefits

- The high-performance butyl has been tested and is compatible with all of the ExoAir product line.
- Primerless application allows for faster installation time.
- Manufactured to a preset, uniform thickness that provides consistent and uniform coverage at proper thickness.
- Rugged HDPP film protects high-performance butyl membrane against incidental damage during construction process.
- Variety of widths available for job specific needs.
- Metalized facer reduces heat absorption, resulting in thermal stability during construction cycle.
- Material installation and service temperatures eliminate the need for low temperature or high temperature accessories.
- Reduced material weight compared to traditional 40-mil systems reduces fatigue on installers and can increase productivity.

Availability

EXOAIR® 111 is immediately available from your local Tremco Sales Representative or Distributor. For Distributor locations, visit www.tremcosealants.com

Coverage Rates

Varies depending on width selected

Packaging

Length:	75' (22 M)	
Width:	6" (15 cm)	8 rolls/box
	9" (22 cm)	4 rolls/box
	12" (30 cm)	4 rolls/box
	18" (45 cm)	1 roll/box
	24" (61 cm)	1 roll/box
	36" (91 cm)	1 roll/box

Colors

Metalized HDPP facer

Storage

Store ExoAir 111 in the original, undamaged packaging in a clean, dry, and protected location where temperatures do not exceed 100 °F (37 °C).

Shelf Life

2 years when stored in accordance with storage instructions.

Applicable Standards

ExoAir 111 has been tested to the following industry standards and test methods for air barriers:

- AATCC 127-2008 Water Resistance: Hydrostatic Pressure Test for 5 hr
- ASTM C1305 Standard Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane
- ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension
- ASTM D870 Standard Practice for Testing Water Resistance of Coatings Using Water Immersion
- ASTM D882 Standard Test Method for Tensile Properties of Thin Plastic Sheeting
- ASTM D903 Standard Test Method for Peel or Stripping Strength of Adhesive Bonds
- ASTM D1876 Standard Test Method for Peel Resistance of Adhesives (T Peel Test)
- ASTM D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- ASTM D4073 Standard Test Method for Tensile – Tear Strength of Bituminous Roofing Membranes
- ASTM D4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
- ASTM E154 Standard Test Methods for Water Vapor Retarders used in Contact with Under Concrete Slabs, on Walls or as Ground Cover - Section 10 only
- ASTM E331 Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
- ASTM E2178 Standard Test Method for Air Permeance of Building Materials
- ASTM E2357 Standard Test Methods for Determining Air Leakage of Air Barrier Assemblies
- NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components.

Fire Rated Systems

ExoAir 111 has been tested in assemblies according to NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components. All of the NFPA 285 UL listed assemblies using Tremco materials can be found using the technical bulletin: ASHRA 90.1 & NFPA 285: Defining & Specifying to Meet IECC & IBC or utilizing the following link: http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=FWFX_R27656&ccnshorttitle=Exterior+Wall+System+Components&objid=1082999775&cfqid=1073741824&version=versionless&parent_id=1082761881&sequence=1

For NFPA 285 engineering judgment requests please go to [www.tremcosealants.com/NFPA 285 Engineering Judgment Request](http://www.tremcosealants.com/NFPA_285_Engineering_Judgment_Request), or contact Tremco Technical Service at 866-209-2404.

Limitations

- No more than 6 months of UV exposure before façade installation. If membrane is exposed for a period exceeding 6 months, contact Tremco Technical Service for additional recommendations at 866-209-2404, or visit the Technical Resources area of our website at www.tremcosealants.com and "Ask the Expert."
- Do not apply to damp, contaminated or frost-covered surfaces.
- Not to be used as a permanently exposed surface. Contact your local Tremco Sales Representative for project specific requirements.
- It is best to store ExoAir 111 at temperatures not exceeding 100 °F (37 °C).

Warranty

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	DESCRIPTION
Type	Butyl sheet with metalized HDPP facer
Color	Metalized HDPP facer
Solids	100%
Weight	0.17 lb/ft ² (0.83 kg/M ²)
Application	Sheet Applied
Thickness	20 mils butyl, 4 mils HDPP facer
Storage Temperature	Temperatures not exceeding 100 °F (37 °C)
Application Temperature	Above 0 °F (0 °C) and rising
Service Temperature	Intermittent Exposure up to 240 °F (115 °C)

PROPERTY	TEST METHOD	TYPICAL VALUES
Maximum V.O.C.	Method 310	0 g/L
Water Resistance	AATCC-127	Pass
Crack Bridging	ASTM C1305	Pass
Elongation	ASTM D412 Die C	600%
Tensile Strength		960 psi (661.9 N/cm ²)
Water Immersion	ASTM D870	Pass
Elongation	ASTM D882	400%
Tensile Strength		13.8 lbf (61.38 N) CMU: 4.69 lbf (20.86 N) Exterior Sheathing: 4.52 lbf (20.10 N) Metal: 3.27 lbf (14.55 N)
Adhesion to Common Substrates	ASTM D903	
Lap Peel Adhesion	ASTM D1876	2.04 lbf (9.07 N)
Pliability, 180°, 1" (25 mm) mandrel @ -29 °F (-34 °C) (Low Temperature Flex)	ASTM D1970 – Section 7.6	Pass
Nail Sealability	ASTM D1970 – Section 7.9	Pass
Tensile Strength	ASTM D4073	Machine Direction 14.4 lbf (64 N) Cross Direction 13.4 lbf (60 N)
Adhesion	ASTM D4541	61 lbs
Water Vapor Permeance	ASTM E96 Dry Cup ASTM E96 Wet Cup	0.01 US Perms 0.04 US Perms
Water Penetration	ASTM E331	Passed at 6.26 lb/ft ² (300 Pa) for 2 hours
Air Leakage of material	ASTM E2178; Free Film Method @ 75 Pa ASTM E2178; Free Film Method @ 300 Pa ASTM E2178; Free Film Method @ 500 Pa	<0.0001 cfm/ft ² (0.0005 L/sm ²) 0.00007 cfm/ft ² (0.0004 L/sm ²) 0.0001 cfm/ft ² (0.0007 L/sm ²)
Air Leakage of assembly	ASTM E2357	0.0016 cfm/ft ² @ 1.56 lb/ft ² (0.0081 L/sm ² @ 75 Pa)
Fire Resistance of an Assembly	NFPA 285	Primary component on a variety of UL-Listed and evaluated systems
Storage Temperature		40-100 °F (5-37 °C)
Application Temperature		Above 20 °F (-6 °C) and rising
Service Temperature		Intermittent exposure up to 240 °F (115 °C)

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