TREMCO

TECHNICAL DATA SHEET

EXOAIR® 110AT

Self-Adhered Air and Vapor Barrier Membrane

PRODUCT DESCRIPTION

ExoAir® 110AT is a 18-mil composite impermeable membrane that is comprised of 12 mils of butyl and 6 mils of HDPP facer. It can be used as the membrane, detailing accessory, as well as thru-wall flashing of an air barrier system. ExoAir 110AT when installed properly as a system will provide the requirements of an air barrier: air impermeable, continuity, structural integrity and durability.

BASIC USES

ExoAir 110AT 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 110AT can also be applied to poured concrete, steel, wood based, Nudura Insulated Concrete Forms (ICF), and insulated concrete forms substrate, as well as serve as detailing or a transition membrane into window and door openings. ExoAir 110AT is designed to be installed when both the air and surface temperature are 20 °F (-6 °C) and rising.

FEATURES & BENEFITS

- The high-performance butyl has been tested and is compatible with the ExoAir product line
- Primerless application allows for faster installation time
- Manufactured to a preset, uniform thickness that provides consistent and uniform coverage.
- Rugged HDPP film protects high-performance butyl membrane against incidental damage during construction process.
- Variety of widths available for job specific needs.
- White 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 110AT is immediately available from your local Tremco Sales Representative or Distributor. For Distributor locations, visit https://www.tremcosealants.com/.

COVERAGE RATES

Varies depending on width selected.

PACKAGING

Length: 75’ (22M)

Width: 4" (10 cm)-12 rolls/box, 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.

APPLICATION STANDARDS

- ExoAir 110AT 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 110AT 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: ASHRAE 90.1 & NFPA 285: Defining & Specifying to Meet IECC & IBC or utilizing the following link: https://iq2.ulprospector.com/session/new?redirect=http%3a%2f%2fiq.ulprospector.com%2fen%2fsearch%2flegacy%3furl%3dshowpage.html%25253Fname%25253DFWFX.R27656%252526ccnshorttitle%25253DExterior%25252BWall%25252BSystem%25252BComponents%252526objid%25253D1082999775%252526cfgid%25253D1073741824%252526version%25253Dversionless%252526parent_id%25253D1082761881%252526sequence%25253D1

For NFPA 285 engineering judgment requests please go to www.tremcosealants.com/NFPA 285 Engineering Judgment Request or contact Tremco Technical Service at 866-209-2404.

WARRANTY

A repair or replacement warranty is available on all Tremco products. Visit https://www.tremcosealants.com/warranties/ for details.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	DESCRIPTION
TYPE	Butyl sheet with white HDPP facer
COLOR	White HDPP facer
SOLIDS	100%
WEIGHT	0.17 lb/ft² (0.83 kg/M²)
APPLICATION	Self-Adhered

TYPICAL PHYSICAL PROPERTIES		
THICKNESS	18 mils: 12 mils butyl, 6 mils HDPP facer	
STORAGE TEMPERATURE	Temperatures not exceeding 100 °F (37 °C)	
APPLICATION TEMPERATURE	Above 20 °F (-6°C) and rising	
SERVICE TEMPERATURE	Intermittent Exposure up to 240 °F (115 °C)	
PROPERTY	**TEST METHOD**	**TYPICAL RESULTS**
MAXIMUM V.O.C.	Method 310	0 g/L
WATER RESISTANCE	AATCC-127	Pass (5 hours)
CRACK BRIDGING	ASTM C1305	Pass
ELONGATION TENSILE STRENGTH	ASTM D412 Die C	650% 1570 psi
PEEL OR STRIPPING STRENGTH	ASTM D903	
	Plywood	5.7 lbf/in
	CMU	8.0 lbf/in
	Exterior Sheathing	7.3 lbf/in
	ExoAir 110AT	9.0 lbf/in
PLIABILITY, 180°, 1" (25 MM) MANDREL @ -29 °F (-34 °C) (LOW TEMPERATURE FLEX) NAIL SEAL ABILITY	ASTM D1970 – Section 7.6 ASTM D1970 – Section 7.9	Pass Pass
TEAR INITIATION	ASTM D4073	
	MD (Machine Direction)	24 lbf
	CMD (Cross Machine Direction)	21 lbf
ADHESION	ASTM D4541	38.7 psi
FLAME SPREAD SMOKE DEVELOPMENT	ASTM E84	5 10
WATER VAPOR PERMEANCE	ASTM E96 Dry Cup ASTM E96 Wet Cup	0.02 US Perms 0.04 US Perms
WATER PENETRATION	ASTM E331	Passed at 6.26 lb/ft² (300 Pa) for 2 hours
MATERIAL AIR PERMEANCE	ASTM E2178; Free film Method @ 75 Pa	0.001 L/sm²
AIR BARRIER ASSEMBLY AIR LEAKAGE	ASTM E2357	0.003 L/s•m² @ 75 Pa
FIRE RESISTANCE OF AN ASSEMBLY	NFPA 285	Pass
TENSILE STRENGTH	ASTM D882	28 lbf/in
RESISTANCE TO PUNCTURE	ASTM E154	52 lbf/in
AIR BARRIER ASSEMBLY LEAKAGE @ 75 Pa	CAN/ULC-S741-08(2020)	PASS - 0.0020 L/s•m² @ 75 Pa
AIR LEAKAGE RATE	CAN/ULC-S742-2020	CLASSIFICATION A1

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.

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