

Product Description

EXOAIR® 220 Fluid-Applied Permeable Air Barrier Membrane is a monolithic, elastomeric membrane designed to be rolled or sprayed onto exterior above-grade wall assemblies to mitigate air infiltration/exfiltration and water penetration while remaining permeable to the passage of water vapor.

Basic Uses

EXOAIR® 220 is typically applied to exterior sheathing panels, concrete block, poured concrete or wood substrates as an air and vapor barrier material. EXOAIR® 220 can be used with EXOAIR 110, EXOAIR 111 or EXOAIR 230 to transition into window and door openings.

Features and Benefits

- EXOAIR 220 is a seamless, monolithic membrane that creates a fully adhered air barrier when properly installed.
- The ability to roller or spray apply the material affords the contractor the ability to accelerate installation times compared to traditional self-adhered membrane systems.
- The high performance properties of the EXOAIR 220 membrane retard the migration of air and bulk water but allow water vapor to pass through the membrane. As a result, vapor permeable systems like EXOAIR 220 allow for more flexibility in the placement of the air barrier membrane in the wall design.
- EXOAIR 220 has been evaluated in an assembly according to NFPA 285 allowing for flexibility in your product/assembly selection.
- EXOAIR 220 is formulated for UV resistance up to 6 months, which allows for flexibility during the construction process.

Availability

EXOAIR® 220 is immediately available from your local Tremco Sales Representative or Distributor. For Distributor locations, visit www.tremcosealants.com

Coverage Rates

Approximately 25 ft²/gal at 60 wet mils (40 dry mils)

Approximately 2.32 M²/US gal at 60 wet mils (40 dry mils)

Packaging

5-gal (19-L) pails
55-gal (208-L) drums

Colors

Black

Storage

Store EXOAIR® 220 in original, undamaged packages in a clean, dry, protected location with temperatures 40 to 100 °F (5 to 37 °C).

Shelf Life

1 year when stored in accordance with storage instructions

Applicable Standards

EXOAIR® 220 has been tested to the following industry standards for air barriers:

- AATCC 127-2008 Water Resistance: Hydrostatic Pressure Test
- 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 D1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
- 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 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

None presently listed. For Firestop engineering judgment requests please go to www.tremcosealants.com 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.
- Membrane shall be protected from rain and washout prior to drying.
- When applying to surfaces below 40 °F (5 °C), please refer to the Technical Bulletin- Cold Temperature Recommendations for Air Barrier Applications at www.tremcosealants.com or contact Tremco Technical Service at 866-209-2404.
- EXOAIR® 220 is not to be applied directly to fireproofing materials. Contact Tremco Technical Service at www.tremcosealants.com for alternative recommendations.
- Keep product from freezing prior to being applied to the substrate. It is best to store EXOAIR® 220 off the floor at an ambient temperature above 50 °F (10 °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	Polymer-Modified emulsion
Color	Black
Solids	60%
Density	8.7 lb/gal
Application	Spray/Roller
Thickness	Minimum 60 mils (wet), 40 mils (dry)
Storage Temperature	40 to 100 °F (5 to 37 °C)
Cure Time	16 to 24 hr at 75 °F (24 °C), 50% RH
Application Temperature	Above 40 °F (5 °C) and rising. If installing below 40 °F (5 °C), please refer to Cold Weather Air Barrier Installation Technical Bulletin or contact Tremco Technical Service at 866-209-2404.
Service Temperature	Intermittent Exposure up to 158 °F (70 °C)

PROPERTY	TEST METHOD	TYPICAL VALUES
Maximum V.O.C.	Method 310	2 g/L
Crack Bridging	ASTM C1305	Pass
Elongation	ASTM D412 Die C	900%
Tensile Strength		325 psi
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
Adhesion	ASTM D4541	Concrete: 28 psi Exterior Sheathing: 19 psi
Water Penetration	ASTM E331	Passed at 12 lb/ft² (575 Pa)
Air Leakage of material	ASTM E2178; Free Film Method @ 75 Pa	0.0001 cfm/ft² (0.0006 L/(s•m²))
Air Leakage of assembly	ASTM E2357	0.002 cfm/ft² @ 1.56 lb/ft² (0.012 L/(s•m²) @ (75 Pa))
Fire Resistance of Assembly	NFPA 285	Pass

0316/EXO220DS-AB

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