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## 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.

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## FEATURES AND BENEFITS

- ExoAir 220 is a seamless, monolithic membrane that creates a fully adhered air barrier when properly installed.
- ExoAir 220 is an approved Water Resistive Barrier when applied to Nudura Insulated Concrete Forms (ICF), or insulated concrete forms.
- 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.

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## AVAILABILITY

ExoAir 220 is immediately available from your local Tremco Sales Representative or Distributor. For Distributor locations, visit [www.tremcosealants.com](http://www.tremcosealants.com).

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## COVERAGE RATES

Approximately 25 ft<sup>2</sup>/gal at 60 wet mils (36 dry mils) to represent actual dry film thickness.  
Approximately 2.32 M<sup>2</sup>/US gal at 60 wet mils (36 dry mils).

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## PACKAGING

5-gal (19-L) pails  
52-gal (197-L) drums

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## COLORS

Black

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## SHELF LIFE

1 year when stored in accordance with storage instructions.

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## STORAGE

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

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## 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

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## FIRE RATED SYSTEMS

ExoAir 220 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 90.0 & MFPA 285: Defining & Specifying to Meet IECC & IBC or utilizing the following link:[http://database.ul.com/cgibin/XYV/template/LISEXT/1FRAME/showpage.html?name=FWFX.R27656&ccnshorttitle=Exterior+Wall+System+Components&objid=1082999775&cfid=1073741824&version=version&parent\\_id=1082761881&sequence=1](http://database.ul.com/cgibin/XYV/template/LISEXT/1FRAME/showpage.html?name=FWFX.R27656&ccnshorttitle=Exterior+Wall+System+Components&objid=1082999775&cfid=1073741824&version=version&parent_id=1082761881&sequence=1).

For NFPA 285 engineering judgment requests please go to [www.tremcosealants.com/NFPA](http://www.tremcosealants.com/NFPA) 805 Judgment Request, or contact Tremco Technical Service at 866-209-2404.

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## 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](http://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](http://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](http://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).

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## 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	Polymer-Modified emulsion
Color	Black
Solids	60%
Density	8.7 lb/gal
Application	Spray/Roller
Thickness	Minimum 60 mils (wet), 36 mils (dry) to represent actual dry film thickness
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 Tensile Strength	ASTM D412 Die C	900% 325 psi
Pliability, 180°, 1" (25 mm) mandrel @ -29 °F (-34 °C) (Low Temperature Flex)	ASTM D1970 – Section 7.6	Pass
Nail Seal Ability	ASTM D1970 – Section 7.9	Pass
Adhesion	ASTM D4541	Concrete: 28 psi Exterior Sheathing: 19 psi
Water Penetration	ASTM E331	Passed at 12 lb/ft <sup>2</sup> (575 Pa)
Air Leakage of material	ASTM E2178; Free Film Method @ 75 Pa	0.0001 cfm/ft <sup>2</sup> (0.0006 L/(s•m <sup>2</sup> ))
Air Leakage of assembly	ASTM E2357	0.002 cfm/ft <sup>2</sup> @ 1.56 lb/ft <sup>2</sup> (0.012 L/(s•m <sup>2</sup> ) @ (75 Pa))
Water Vapor Transmission	ASTM E96 Wet Cup	13 US Perms

Please refer to our website at [www.tremcosealants.com](http://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.

EXOAIR220-DS/1023

Tremco Construction Products Group (CPG) brings together the Commercial Sealants & Waterproofing and Roofing & Building Maintenance divisions of Tremco CPG Inc.; Dryvit, Nudura and Willseal brands; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc.; Weatherproofing Technologies Canada, Inc.; and Pure Air Control Services, Inc.



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