TREMCO

TECHNICAL DATA SHEET

EXOAIR® 220

Fluid-Applied, Asphaltic Air and Vapor Permeable Membrane

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.

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.

AVAILABILITY

ExoAir 220 is immediately available from your local Tremco Sales Representative or Distributor. For Distributor locations, visit https://www.tremcosealants.com/.

COVERAGE RATES

Approximately 23 ft²/gal at 70 wet mils (36 dry mils) to represent actual dry film thickness.

Approximately 2.14 M²/US gal at 70 wet mils (36 dry mils).

PACKAGING

5-gal (19-L) pails

52-gal (197-L) drums

COLORS

Black

SHELF LIFE

1 year when stored in accordance with storage instructions.

STORAGE

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

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

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&cfgid=1073741824&version=version&parent_id=1082761881&sequence=1.

For NFPA 285 engineering judgment requests please go to www.tremcosealants.com/NFPA 805 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.
- 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 886-209-2404.
- 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

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

TYPICAL PHYSICAL PROPERTIES	
PROPERTY	**DESCRIPTION**

TYPICAL PHYSICAL PROPERTIES

Type	Polymer-Modified emulsion	
Color	Black	
Solids	51%	
Density	8.7 lb/gal	
Application	Spray/Roller	
Thickness	Minimum 70 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) Nail Seal Ability	ASTM D1970 – Section 7.6 ASTM D1970 – Section 7.9	Pass 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))
Water Vapor Transmission	ASTM E96 Wet Cup	13 US Perms

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.

EXOAIR220-DS/1023

Tremco Construction Products Group (CPG) brings together Tremco CPG Inc. and its Dryvit and Nudura brands; Willseal; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc. and its Pure Air Control Services and Canam Building Envelope Specialists offerings; and Weatherproofing Technologies Canada, Inc.

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