CavityComplete™
CMU Wall System

Product Data Sheet

ExoAir® 230

Fluid-Applied Vapor-Permeable, UV-Resistant Air Barrier Membrane

TREMCO
Commercial Sealants & Waterproofing

Product Description

ExoAir® 230 is a fluid-applied synthetic vapor-permeable air barrier designed for use in commercial construction application. It can be either roller or trowel applied to common substrates. It may also be used as a liquid-applied window flashing, enabling the contractor to address both the membrane and window flashing with a single material.

Basic Uses

ExoAir® 230 is used to stop unrestricted air infiltration and exfiltration through the building envelope. In addition, ExoAir® 230 serves as a weather-resistive barrier keeping liquid water out while allowing water vapor to pass through.

Features and Benefits

ExoAir® 230 is formulated for UV resistance providing the flexibility to allow the membrane to be exposed during the construction process.

Applicable Testing and Standards

ExoAir® 230 and other Tremco system accessories have been tested as components of the CavityComplete™ wall assembly in a number of standard test methods, including:

- ASTM E2357 Standard Test Method for Determining Air Leakage of Air Barrier Assemblies
- ASTM E331 Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference
- NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components

Packaging

5 gal. (19L) pails; 36 pails/pallet
52 gal. (197L) in 55 gal. (208L) drum; 4 drums/pallet

Color

Standard color: Limestone
Custom colors available upon request.

Installation

For detailed instructions, please see the ExoAir® 230 application instructions for the CavityComplete™ Wall System.

Application of Membrane

ExoAir® 230 should be applied to a minimum of 70 wet mils, which will achieve 35 dry mils. ExoAir® 230 shall be roller or spray applied. Please refer to the Technical Bulletin Spraying Guide at www.tremcosealants.com for more information on spraying ExoAir® 230. Use a wet film gauge as well as staging material to ensure proper application thickness. Coverage rate is approximately 23 ft^2/gal. (0.57m^2/L).

Clean Up

Excess membrane can be cleaned up or removed with soapy water before sealant skins.

Dry Time

At 77°F (25°C), 50% RH, ExoAir® 230 is tack-free in 30-60 minutes and dries in less than 24 hours.

Compatibility and Continuity

ExoAir® 230 installation requires the use of sealants and transition membranes for full system installation. Compatible CavityComplete™ System materials include:

- Dymonic® 100, high performance polyurethane sealant used to seal joints and transitions
- Mortar Net Solutions™ CompleteFlash™ Corner
- Mortar Net Solutions™ MPE-1

For specific installation information and sequencing, refer to the ExoAir® 230 Application Instructions.

Limitations

- Do not apply on frozen substrates.
- Membrane shall be protected from rain and washout prior to drying.
- If installing below 40˚F (5˚C), refer to Cold Weather Air Barrier Installation Technical Bulletin.
- Do not allow material to freeze prior to application.

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Typical Physical Properties

Property	Test Method	Results
Wet mil Thickness/Dry mil thickness		70 wet/35 dry
% Solids		50% solids
Water Vapor Transmission	ASTM E96, Wet Cup	1.92 g/h* m^2
Permeance	ASTM E96, Wet Cup	11.71 perms (0.034 grain/hr ft inches of Hg)
Permeability (35 mil dry thickness; 70˚F and 50% R.H.)	ASTM E96, Wet Cup	0.41 perm inches
Material Air Permeance	ASTM E2178; Free Film Method @ 75 Pa	0.00805 L/(s*m^2) (0.00158 cfm/ft^2)
	ASTM E2178; Free Film Method @ 300 Pa	0.02211 L/(s*m^2) (0.00435 cfm/ft^2)
	ASTM E2178; Free Film Method @ 500 Pa	0.03379 L/(s*m^2) (0.00665 cfm/ft^2)
Assembly Air Leakage	ASTM E2357	Pass
Adhesion to Common Substrates	ASTM D4541	Typical Results
Concrete Masonry Units		> 16 psi
Plywood		> 16 psi
Exterior Sheathing		> 16 psi (pulls facing from sheathing)
Flame Spread	ASTM E84	10
Smoke Develop	ASTM E84	25
VOC Content	EPA Method 310	37 g/L
pH		7-9
Storage Temperature		40˚F to 110˚F (5˚C to 43˚C)
Application Temperature		Above 40˚F (5˚C). If installing below 40˚F (5˚C), contact Tremco for recommendations.
Service Temperature		Intermittent Exposure up to 240˚F (115˚C)
Shelf Life		Min. 1 year when stored at 40˚ – 110°F (5˚ – 43°C)
Antifungal		Contains an antifungal additive
Nail Sealability	ASTM D1970, Section 7.9	Pass
UV Resistance*	QUV-B	Passes 168 daily cycles of UV and water spray with no observable deterioration
Low Temperature Flexibility and Crack Bridging	ASTM C1305	Pass @ -20˚F (-29˚C)
Elongation	ASTM D412	630%
Water Immersion	ASTM D870	Pass

*Accelerated aging test. 1 daily cycle of UV and water spray greatly exceeds 1 day of real-world exposure. Contact Tremco Technical Services or your local sales representative for more information.

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

The CavityComplete™ Concrete Masonry Unit (CMU) Wall System excludes the masonry veneer and concrete masonry units. A detailed list of the components is available at www.CavityComplete.com.

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