

Securock® ExoAir® 430 Panel System FAQs

SECUROCK® EXOAIR® 430 SYSTEM

What is the Securock® ExoAir® 430 System?

A high-performance, energy-efficient air and water barrier system comprised of the Securock ExoAir 430 Panel and system components. System components are: Dymonic® 100 (used for joint treatment and detailing around penetrations), Spectrem® 1 and Proglaze® ETA Connections (used for control/expansion joint detail), ExoAir 111 (used for detailing rough openings), ExoAir 230 with Securock ExoAir Reinforcing Mesh (used for detailing rough openings, to make transitions and detail outside corners), Tremco® Epoxy Primer (to connect to adjacent waterproofing membranes), ExoAir Primer (for sealing exposed gypsum core where required), and ExoAir LEF (for filling voids and gaps around penetrations).

Why should the Securock ExoAir 430 System be specified?

The integration of sheathing and an air/water barrier speeds and simplifies both the specification process and installation. Securock ExoAir 430 Panel and system components ensure that the desired building performance goals will be achieved with this high-performance system.

What does the warranty cover?

The Securock ExoAir 430 Panel is covered with a five-year material-only warranty beginning on the date of substantial completion when the Securock ExoAir 430 Panel and the approved sealants and transition materials are installed in accordance with the manufacturer's Installation Instructions (BE102).

Are the system components warranted?

System components are warranted by Tremco Incorporated. Please refer to tremcosealants.com for more information.

SECUROCK EXOAIR 430 PANEL

Does the 20 dry mil membrane thickness provide a sufficient air barrier?

Yes it does. Field applied membranes will always have a variance in the membrane's thickness – highs and lows due to installation methods. The application of 80 wet mils is historically a practice to ensure enough product has been applied to the wall. And when measuring the thickness of the membrane in the field, it's the low areas – not the high areas - that should be evaluated. In contrast to the experience in the field, Securock ExoAir 430's in-plant controlled application of membrane removes this variability and ensures a consistent 20 mil application of membrane on every panel.

What is the maximum time that Securock ExoAir 430 Panels can be left exposed?

Securock ExoAir 430 Panels should be protected from UV exposure and possible site damage from other trades as soon as possible following installation. The contractor should examine the panels to ensure that the membrane's continuity has not been compromised. If it has, follow the repair instruction outlined in the Installation Instructions (BE102) before cladding is installed. Although the membrane color may change during exposure, the air and water barrier performance of the panel is not compromised. The fully-installed (using approved sealants and transition materials) Securock ExoAir 430 Panel shall not be left exposed for more than six months prior to cladding.

Is the Securock ExoAir 430 Panel self-gasketing?

Securock ExoAir 430 Panel passes the nail sealability section of ASTM D1970. The test method was created as a test for a roofing application. As a result, the fastener used is a smooth roofing nail and the membrane is tested on a horizontal orientation. While this method supplies some product information, what is important is the understanding of how the system performs in the real world. This includes using proper fasteners, shifting the membrane to a vertical orientation and applying both positive and negative pressures. ASTM E331 will take these into consideration and provide information on how the assembly as a whole performs.

Has the Securock ExoAir 430 Panel been tested as an assembly according to NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components?

Yes, the Securock ExoAir 430 System was tested as an assembly according to NFPA 285 and passed.

Do the panels require any special storage?

The panels require no special storage. They should be stored flat in an enclosed shelter and protected from damage and exposure to the elements.

Why are test methods ASTM D412 and C1305 not valid for the panel?

ASTM D412 and ASTM C1305 are test methods designed to measure membrane elongation, tensile strength and crack bridging ability, and are not applicable to a panel because a panel will not elongate or bridge cracks once installed. The joint treatment components of this system, Dymonic 100 and Spectrem 1, are products that provide elongation, tensile strength and the ability to bridge cracks. The data for both Dymonic 100 and Spectrem 1 can be found on the Securock ExoAir 430 Panel Certification Letter.

Is the panel membrane easily damaged? What do I do if it's damaged and what constitutes "damage"?

The panel is not easily damaged but can be susceptible to scratches, knife cuts, fastener penetration and unintentional holes. It's imperative to the barrier performance that the panel not be compromised in any way. If it has, refer to the repair instruction outlined in the Installation Instructions (BE102) before cladding is installed.

Will the panel change color if left exposed?

The panel may change color if left exposed for an extended period of time. However the change in color will have no impact on the performance of the membrane. It's recommended that the panels be covered as soon as possible to avoid any possible damage from other trades, weather or falling debris.

SEALANTS

What sealants are approved for detailing the Securock ExoAir 430 Panels?

Dymonic 100 (in light orange) and Spectrem 1 (in purple) are approved for detailing the Securock ExoAir 430 panels. Please refer to the Securock ExoAir 430 System Installation Instructions and Details for more information on installing sealants.

How do I choose the right sealant for the right application?

Dymonic 100 is used to seal panel joints and fastener heads, as a cant bead in transitions and in expansion joints using brake metal. Spectrem 1 is used to detail control/expansion joints with Proglaze ETA Connections. Dymonic 100 is a high-performance, medium-modulus polyurethane; it skins quickly, making it a user-friendly economical choice in most climate conditions. Dymonic 100 exhibits tenacious adhesion once fully cured. Dymonic 100 should be used if an adhesively bonded facade will be installed. Spectrem 1 is an ultra low-modulus, high-performance, one-part, moisture-curing silicone sealant that is ideal for use in dynamically moving joints and in cold weather conditions. For complete information on how to select the right sealant for the right job, see section 14 of the Installation Instructions (BE102) or visit tremcosealants.com/products/dymonic-100.aspx and tremcosealants.com/products/spectrem-1.aspx

How long does it take Dymonic 100 to cure once it's applied to the panel?

Dymonic 100 has a robust skin time of two hours with a tack-free time of 6-8 hours at standard conditions (75°F/23°C @ 50% RH). Full cure through of the sealant will vary depending on temperature, humidity and thickness but should be cured if applied at the 1/16" depth per the installation instructions within 24 hours at standard conditions (75°F/23°C @ 50% RH). We recommend adding an additional 24 hours for every 10 degrees decrease in temperature. Adhesion can be verified after a seven-day cure.

How long does it take Spectrem 1 to cure once it's applied to the panel?

Spectrem 1 has a skin and tack-free time of 30-60 minutes at standard conditions (75°F/23°C @ 50% RH). Full cure through of the sealant will vary depending on temperature, humidity and thickness but should be cured if applied at the 1/16" depth per the installation instructions within 24 hours at standard conditions (75°F/23°C @ 50% RH). Adhesion can be verified after a seven-day cure.

Can cladding be installed before the Dymonic 100, Spectrem 1 and ExoAir 230 are cured?

All sealants should be allowed a minimum of 24 hours to cure before cladding is installed as to not compromise the sealant or membrane installation.

Can Dymonic 100 and Spectrem 1 be applied if there is dew/moisture on the surface of the panel?

Both sealants require the panel to be clean, dry and sound before installation.

What is the shelf life of Dymonic 100 and Spectrem 1?

12 months, when properly stored in original, unopened packaging.

What is the minimum surface temperature of the panel for installation of Dymonic 100 and Spectrem 1?

It's recommended that the surface temperature of the panel should be 40°F and rising or above; however sealants may be applied at temperature below 40°F. Please download a copy of the Cold Temperature Sealant Caulking Recommendations found at tremcosealants.com/fileshare/commercial_docs/BulletinS-08-44ColdTempSealantRec.pdf

How many lineal feet can I get from a sausage of sealant?

Per Installation Instructions, BE102, a bead of sealant shall be applied at a depth of 1/16" and 1-1/2" wide to board joints that are installed tight with no gap. A 20 oz. sausage of Dymonic 100 will cover 32 lineal feet at these dimensions. In addition a five-gallon pail will cover 1,000 lineal feet.

EXOAIR 230 MEMBRANE

What is it and how/where is it installed?	ExoAir 230 is a synthetic, fluid-applied air and water barrier used to stop unrestricted air infiltration and exfiltration. It can be either rolled or sprayed applied. It's installed as an adjacent membrane to provide continuity from the panel to other surfaces. When reinforced with mesh, it is also used as a liquid-applied window flashing as part of the Securock ExoAir System. For application information, including installation instructions, standard details and more, visit tremcosealants.com/products/exoair-230.aspx
How long does it take ExoAir 230 to cure/dry when applied?	The cure through of the ExoAir 230 ranges between 24-48 hours when evaluated at temperatures between 40°F and 90°F and relative humidity between 50-75%.
When detailing rough openings and outside corners with Securock ExoAir Reinforcing Mesh and ExoAir 230, what is the ratio of mesh to fluid?	A five-gallon pail of ExoAir 230 and 6" Securock ExoAir Reinforcing Mesh will be able to detail approximately 150 ft. The assumptions with this estimate are that the mesh is fully embedded with 70 wet mils of ExoAir 230 and the ExoAir 230 is extended 1" beyond the edges of the mesh. The appropriate dimensions of the properly installed 6" mesh and one five-gallon pail of ExoAir 230 is 8" x 150'.
How many square feet can I get from a five-gallon pail of ExoAir 230?	23 square feet per gallon. A five-gallon pail will cover 115 feet.

PRIMERS

When are primers required?	ExoAir Primer is required on exposed gypsum core only when using ExoAir 230 fluid membrane and mesh in rough openings and outside corners. ExoAir Primer is also required to seal damaged 430 membrane (see the Repair section of the Installation Instructions, BE102). Primers are not required under Dymonic 100 and Spectrem 1 when detailing to the membrane face of Securock ExoAir 430 Panel.
What is the difference between the two primers and their application?	Tremco Epoxy Primer is a two component (1:1) primer used as a compatible tie-in to create connectivity between the Securock ExoAir 430 System and adjacent waterproofing system. ExoAir Primer is a VOC-compliant film-forming primer used to prepare substrates to seal any exposed gypsum core prior to the application of Dymonic 100. For complete information visit: tremcosealants.com/products/tremco-epoxy-primer.aspx tremcosealants.com/products/exoair-primer.aspx
How many square feet can I get from a five-gallon pail of ExoAir Primer?	250 square feet per gallon. A five-gallon pail will cover 1,250 square feet. Tremco Epoxy Primer has the same coverage rate as the ExoAir Primer.

INSTALLATION SPECIFICS

What types of fasteners are used to install Securock ExoAir 430 Panels?	Please refer to the Securock ExoAir 430 Installation Instructions for specific information on the appropriate fasteners for installing the panels.
Do I have to install control joints?	The design and placement of control joints is the responsibility of the design professional of record. Refer to the Project Manual (specifications and construction drawings).
Do the panels handle like USG Securock® Brand Glass-Mat Sheathing in how they score & snap, rasp cut outs and screw & nail?	There are no discernible handling or installation differences between Securock ExoAir 430 Panel and USG Securock® Brand Glass-Mat Sheathing.
What size is the panel available?	The panel currently is available in 5/8" 4' x 8' panels.
How much heavier are the panels than USG Securock® Brand Glass-Mat Sheathing?	The 5/8" 4' x 8' panel weighs approximately seven lbs. more than USG Securock® Brand Glass-Mat Sheathing totaling 93 lbs or 2.98 psf.
What is the fastener spacing?	The maximum fastener spacing is 24" o.c. for typical construction, specifically for soffit construction the maximum fastener spacing is 8" o.c. The minimum distance from fastener to the edge or end of the panel is 3/8".
Can the panel be used on window sills?	The panel can be used on the jam, head and sill of a window rough opening. Wood blocking can also be used.
Does the Securock panel work with EIFS?	Yes it can. Please contact Tremco Technical Services at 866-209-2404 for more information on EIFS installation.

Is it necessary to seal the fastener heads and if so, why?	All fasteners should be detailed with Dymonic 100 to ensure a monolithic membrane.
Is it necessary to seal brick ties?	A variety of brick ties have been evaluated and solutions are available. Please contact Tremco Technical Services at 866-209-2404 for more information on specific brick tie recommendations.

STORAGE AND CLEANING

Do the Tremco products require any special storage?	Store all components under dry warehouse conditions at temperatures between 60°F to 80°F away from heat and all ignition sources. Sealants stored at these temperatures are easier to apply. Visit tremcosealants.com for complete storage and warehousing details.
What kind of cleanup do the Tremco products require?	Refer to the product's data sheet found on tremcosealants.com for specific cleaning instructions for each product.

APPLICATOR APPROVAL

Why do I need to be approved to install this product?	A thorough understanding of the building enclosure performance is essential to installing an effective barrier system. Applicator training provides the specific knowledge required to properly install a high-performance barrier system using Securock ExoAir 430 Panels and Tremco accessories. Becoming an approved Securock ExoAir 430 System contractor sets you apart from your competitors and demonstrates that you have the training and expertise to a install high-performance barrier system.
How do I become an Approved Applicator?	Email USG.4YOU-technicalsupport@usg.com or call 800 874-4968.

Product information

See securockexoair.com for the most up-to-date product information.

The product is warranted to be free of defects in materials at the time of shipment, but the manufacturer makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond the manufacturer's control and can affect performance, the manufacturer makes no other warranty, expressed or implied. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE

IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXPRESSLY DISCLAIMED. The manufacturer's sole obligation with respect to any product that fails to conform to the warranty set forth herein shall be, at its sole option, to replace or refund the purchase of the quantity of product proven to be defective. In no event shall the manufacturer be liable for any special, incidental or consequential damages in connection with the product or its use.

Note

Products described here may not be available in all geographic markets.

Notice

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, not for any loss caused by application of these goods not in accordance with current printed instructions or for other than the extended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from the date it was or reasonably should have been discovered.

Safety First

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protection equipment.

Read SDS and literature before specification and installation.



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