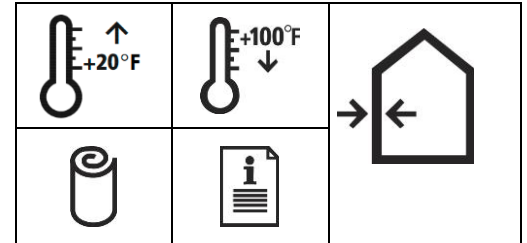


## PRODUCT BULLETIN

# StoGuard® Conformable Membrane

Product Numbers: 4 in: 81823-750 6 in: 81823-751  
 9 in: 81823-752 12 in: 81823-753



### PRODUCT DESCRIPTION

StoGuard Conformable Membrane is a self-adhered membrane flashing for use over prepared vertical above-grade concrete, concrete masonry, brick masonry, wood sheathing, glass mat gypsum sheathing, and cementitious sheathing, as part of a StoGuard® air and water-resistive barrier system. It simplifies detailing of transitions for air barrier continuity in Sto proprietary wall systems and other wall assemblies.

FEATURES	BENEFITS
AAMA 711 Compliant	Fully code compliant: meets IBC, IRC, And FBC requirements for self-adhered membrane flashing
Highly conformable	Folds easily around corners, edges, and transitions to facilitate installation
Versatile, aggressive adhesive system	Cold temperature application, stable under high heat conditions, primerless adhesion to most substrates
Durable	Rigid and stable under air pressure loads; does not easily tear, puncture, or come off the wall with wind or water exposure
One product that handles most transition details	Simplifies application
Split release liner <sup>1</sup> removes easily	Easy to install
Compatible with other StoGuard® Products	Reliability and peace of mind

1. Split release liner on 6, 9, and 12 in (152, 229, and 305mm) widths

**Packaging:** 4 in: 12 rolls at 75 lineal ft each per carton  
 6 in: 8 rolls at 75 lineal ft each per carton  
 9 in: 4 rolls at 75 lineal ft each per carton  
 12 in: 4 rolls at 75 lineal ft each per carton

**Shelf Life:** 1 year when properly stored in original unopened packaging

**Storage:** Store upright off the ground in a dry area between 50 - 80°F (10-27°C).

### USES

Use appropriate width of StoGuard Conformable Membrane to:

- Seal joints and seams in wall sheathing
- Seal static joints between dissimilar materials
- Flash exterior wall openings and protect rough openings
- Seal between window flange and wall sheathing
- Connect to above grade foundation waterproofing
- Connect to roof membrane
- Seal around wall penetrations such as pipes, scuppers, vents
- Back masonry wall ties
- Seal dynamic joints in wall construction

### SURFACE PREPARATION

All substrates must be installed in accordance with applicable code requirements and manufacturer's recommendations.

**Sheathing:** must be Exterior Grade or Exposure 1 wood-based sheathing, ASTM C1177 compliant glass mat gypsum sheathing or ASTM C1325 Type A cementitious sheathing. Sheathing must be clean, dry, and free of surface contamination, weather deterioration, physical damage or defects. For OSB sheathing apply one coat of the Sto air and water-resistive barrier coating by spray or roller at 10-15 WFT and allow to fully dry before applying the membrane. A second coat of Sto air and water-resistive barrier is required to complete the application.

**Concrete:** must be fully cured, structurally sound, clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, grease, efflorescence, form oil, curing compounds, paints or coatings, salts, laitance, or other surface conditions that could interfere with adhesion. Form ties must be removed. Surface defects such as spalls or honeycombs must be repaired (Refer to Sto Product Bulletins: Sto Wall Leveler and Patch or Sto Leveler and Skim Coat).

**Concrete Masonry:** must be fully cured, structurally sound, clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, grease, efflorescence, paints or coatings, salts, laitance, or other surface conditions that could interfere with adhesion. Provide masonry units with flush joints and free of surface defects. Projecting mortar must be removed so it is even with the plane of the wall.

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### APPLICATION

Apply only when ambient and surface temperatures are 20°F (-6.6°C) or above. Apply only to clean, dry, frost-free surfaces.

#### General Instructions:

1. Pre-cut pieces with scissors or a scoring knife to required length and pre-fit for precision and productivity.
2. Remove release liner (or one side of split release liner for widths with split release) from back of membrane.
3. Press membrane into place by hand to achieve a smooth, wrinkle-free surface.
4. Remove other side of the split release liner for widths with split release and place by hand as above.
5. Overlap minimum 2 inches (51mm) onto adjacent surfaces and at membrane-to-membrane overlaps to achieve a smooth, wrinkle-free surface. Follow the principle of shingle lapping at all horizontal overlaps.
6. IMPORTANT: APPLY FIRM UNIFORM PRESSURE WITH A HARD RUBBER ROLLER IMMEDIATELY AFTER THE MEMBRANE IS IN PLACE. ELIMINATE FISHMOUTHS OR OTHER FLAWS IN THE MEMBRANE SURFACE, PARTICULARLY AT EDGES AND ENDS. Use Sto RapidGuard® gun-applied air barrier and waterproofing to seal fishmouthing and any other voids in the membrane.
7. Topcoat with specified Sto air and water-resistive barrier coating within 90 days of application. At rough openings the coating does not need to return into the opening.

**Priming:** certain substrates may require priming to fill the texture of the substrate and enhance adhesion, depending on the condition of the surface. In such cases use StoGuard® Primer. When priming, substrate and ambient temperature must be 40°F (4°C) and rising for a minimum of 24 hours.

**Additional Information:** Refer to StoGuard Conformable Membrane Installation Guide for specific information on cutting, sequencing, and placing StoGuard Conformable Membrane for specific uses and typical construction details.

### LIMITATIONS

- Apply only when surface and ambient temperatures are 20°F (6.7°C) or above.
- Do not use below grade or on surfaces subject to in-service water immersion.
- Do not use as a roofing membrane
- Not intended for prolonged (more than 90 days) UV exposure
- CMU surfaces: joints should be struck flush with the surface (smooth) to prevent water infiltration behind the membrane, as water may enter during construction due to concavity or unevenness of mortar joints.

### LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

### HEALTH & SAFETY

**Health Precautions:** As with any chemical construction product, exercise care when handling.

**Precautionary Statement:** Material will be tacky/sticky. Wash hands after use.

**Personal Protection:** Eyes: safety glasses with side-shields recommended. Skin: normal lightweight work clothing will minimize skin contact. Use of lightweight cloth or leather gloves recommended. Respiratory: no adverse respiratory exposure anticipated under normal use. General Note: under normal conditions of use, this product is not expected to release hazardous chemicals or pose a physical hazard or health risk.

#### FIRST AID MEASURES:

**Eye Contact:** If wearing contact lenses remove. Hold eyelids apart and immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. Get medical attention if irritation develops or persists.

**Inhalation:** Not applicable

**Ingestion:** Never give anything by mouth to an unconscious person. Seek medical attention if symptoms develop.

**Spills:** Not applicable

**Disposal:** As supplied, product is classified at RCRA non-hazardous. Dispose of in accordance with local, state, or federal regulations.

**Warning:** KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) on [www.stocorp.com](http://www.stocorp.com) for further health and safety information.

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### TECHNICAL DATA

TEST	METHOD	TEST CRITERIA	RESULTS*
Air Leakage Resistance	ASTM E2178	Less than 0.02 L/s/m <sup>2</sup>	Pass
Tensile Adhesion (80265, 81636 Sto Gold Coat to Membrane)	ASTM D4541	15 psi	19 psi (131 kPa), 31 psi (213 kPa)
Tensile Bond	ICC-ES AC 212 / ASTM C297	Minimum 15 psi (6.89 kPa)	Greater than 15 psi (6.89 kPa) to glass mat gypsum, plywood, OSB sheathings
Freeze-Thaw Resistance	ICC-ES AC 212, Section 4.2	No deleterious effects after 10 cycles when examined under 5X magnification	No deleterious effects <sup>1</sup>
Water Resistance	ICC-ES AC 212 / ASTM D2247	No deleterious effects after 14 day exposure	No deleterious effects <sup>1</sup>
Water Vapor Transmission	ICC-ES AC 212 / ASTM E96 Method A	Measure	0.096 Perms (5.49 ng/s•m <sup>2</sup> •Pa)
Water Penetration Resistance	ICC-ES AC 212 / ASTM E331	No visible water penetration at sheathing joints	No visible water penetration
Structural, Racking, and Restrained Environmental Conditioning	ICC-ES AC 212 / ASTM E1233, E72, E331,	No cracking after transverse load, racking, restrained environmental conditioning, and water penetration tests	No cracking
Artificial Weathering	ICC-ES AC 212 / AATCC 127 (modified)	No cracking, no bond failure, and no water penetration after artificial weathering, followed by 21.6 in (55cm) hydrostatic head pressure	No cracking, no bond failure, no water penetration
Installation Temperature Range	AAMA 711-13	Measure	20 to 130°F (-6.7 to 50°C)
Service Temperature Range	AAMA 711-13	Measure	-40 to 240°F (-40 to 115°C)
Elongation	ASTM D822	Measure	1470%
Tensile Strength Machine Direction	AAMA 711-13 / ASTM D822	Measure	1500 psi (10.3 MPa)
Tensile Strength Machine Direction	AAMA 711-13 / ASTM D822	Measure	18 lb/in (2034 N/mm)
Tensile Strength Cross Direction	AAMA 711-13 / ASTM D822	Measure	1300 psi (8.96 MPa)
Water Penetration Resistance Around Nails	AAMA 711-13	1.2 in (31mm) water column – no water leakage	Pass
Peel Adhesion to Anodized Aluminum, Plywood, OSB, Rigid Vinyl	AAMA 711-13	1.5 lb/in (0.26 N/mm) minimum	Pass
UV Resistance	AAMA 711-13 / ASTM G154	Verify appearance and peel adhesion after exposure period	180 days
Elevated Temperature Exposure	AAMA 711-13	176°F (80°C) 7 days	Level 3, Pass
Thermal Cycling	AAMA 711-13	Verify appearance and peel adhesion after 10 freeze/thaw cycles	Pass
Low Temperature Flexibility	AAMA 711-13	0°F (-18°C)	Pass
Adhesion after water immersion	AAMA 711-13	Verify peel adhesion after 7-day immersion	Pass
Resistance to Peeling	AAMA 711-13	AAMA Annex 2	Report results
Sealant Compatibility	AAMA 713-08	AAMA 6.4	Report results

\*Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.

1. Deleterious effects are defined as cracking, checking, crazing, erosion, or delamination

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**COMPLIANCE DATA**

<p><b>Building Code Compliance</b></p>	<ul style="list-style-type: none"> <li>• Complies with 2018 and 2021 IBC and IRC requirements for self-adhered membranes used as flashing</li> <li>• Complies with ICC-ES AC 212 and ASTM E2570 as joint treatment in StoGuard Air and Water-resistant Barrier System</li> <li>• Meets 2020 FBC Building and FBC Residential requirements as self-adhered membrane flashing for exterior wall openings</li> <li>• Listed by AAMA as compliant with AAMA 711-20 Type A Level 3 self-adhered flashing component</li> </ul>
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<p><b>Sto Corp.</b>        3800 Camp Creek Parkway        Building 1400, Suite 120        Atlanta, GA 30331        Tel: 404-346-3666        Toll Free: 1-800-221-2397        Fax: 404 346-3119  <a href="http://www.stocorp.com">www.stocorp.com</a></p>	<p>Revision Number: 002        Date: 04/2023</p>	<p><b>ATTENTION</b></p> <p>This product is intended for use by qualified professional contractors, not consumers, as a component of a larger construction assembly as specified by a qualified design professional, general contractor or builder. It should be installed in accordance with those specifications and Sto's instructions. Sto Corp. disclaims all, and assumes no, liability for on-site inspections, for its products applied improperly, or by unqualified persons or entities, or as part of an improperly designed or constructed building, for the nonperformance of adjacent building components or assemblies, or for other construction activities beyond Sto's control. Improper use of this product or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to this product, and to the structure of the building or its components. <u>STO CORP. DISCLAIMS ALL WARRANTIES EXPRESSED OR IMPLIED EXCEPT FOR EXPLICIT LIMITED WRITTEN WARRANTIES ISSUED TO AND ACCEPTED BY BUILDING OWNERS IN ACCORDANCE WITH STO'S WARRANTY PROGRAMS WHICH ARE SUBJECT TO CHANGE FROM TIME TO TIME.</u> For the fullest, most current information on proper application, clean-up, mixing and other specifications and warranties, cautions and disclaimers, please refer to the Sto Corp. website, <a href="http://www.stocorp.com">www.stocorp.com</a></p>
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