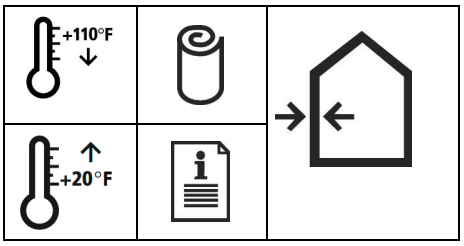
Building with conscience.

PRODUCT BULLETIN

StoShield™ SA NP

Product Number: 81948



PRODUCT DESCRIPTION

StoShield SA NP is a self-adhered vapor impermeable air barrier and water-resistive barrier (AWRB) for use over prepared vertical above-grade concrete, concrete masonry, wood sheathing, glass mat gypsum sheathing, and cementitious sheathing.

FEATURES	BENEFITS
Highly conformable	Folds easily around corners, edges, and transitions to facilitate installation
Versatile, aggressive adhesive system	Cold temperature application, stable under high heat conditions, primer-less 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
Compatible with other StoGuard® Products	Reliability and peace of mind

Packaging: 30-inch (0.76m) wide rolls, 75 lineal feet (22.9m) per roll, packaged in cartons

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

Storage: Store upright off the ground in a dry area between 50°F - 80°F (10°C - 27°C). Do not remove the roll from the box until ready for application. Prior to use, avoid prolonged direct sunlight on the membrane, especially in warm climates.

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, and physical damage or defects.
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 compound, paints or coatings, salts, laitance, or other surface conditions that could interfere with adhesion. Remove form ties and repair surface defects such as spalls or honeycombs (refer to Sto Product Bulletins: Sto Wall Leveler and Patch or Sto Leveler and Skim Coat).

SURFACE PREPARATION (continued)

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.

APPLICATION

Refer to *StoShield SA Self-Adhered Membrane Air & Water-Resistive Barriers Installation Guide* for an illustrative guide to installation.

General Instructions:

1. Treat all detail and transition areas – penetrations such as pipes, scuppers and vents, rough openings, static and dynamic joints, connections at foundation and parapet -- with StoGuard Conformable Membrane or other appropriate StoGuard Detail component. Refer to *StoGuard Conformable Membrane Installation Guide*.
2. Follow the basic principle of shingle lapping the membrane in courses from bottom to top of the wall. Shingle lap minimum 2-in (51mm) at horizontal membrane overlaps, minimum 3-in (76mm) at vertical membrane overlaps, and minimum 3-in (76mm) in each direction at inside and outside corners. Offset vertical seams from one membrane course to the next by a minimum of 12-in (305mm).
3. Pre-cut pieces with scissors or a scoring knife to manageable lengths and mark the position of the top edge of the membrane on the wall with a chalk line.
4. Hold the membrane in place in alignment with the chalk line and fold the top half of the membrane back on itself to expose the top half of the split release liner.
5. Remove the top half of split release liner from the back of the membrane. Pull from one end at a 45 degree angle and put the membrane in place, aligning it with the marked line.
6. Press 3-in (76mm) of the top horizontal edge into place to adhere and hold the membrane in place. Then work from top to bottom, and center to edges, toward the lower half of the membrane, pressing the membrane into place by hand and removing all air pockets to achieve a smooth, wrinkle-free surface. Use a hard rubber roller to apply firm, uniform pressure by rolling from center to edges of the top half of the membrane, again removing all air pockets to achieve a smooth, wrinkle-free surface.

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APPLICATION (continued)

7. Remove the remaining half of the split release liner, pulling from one end at a 45-degree angle. Then press by hand into place, working from top to bottom and center to edges of the membrane. Use the roller to apply firm, uniform pressure by rolling from center to edges of the membrane to achieve a smooth, wrinkle-free surface.
   IMPORTANT: Use StoGuard Conformable Membrane or Sto RapidGuard® gun-applied air barrier and waterproofing to seal any fish mouths, penetrations or tears caused by bracket or accessory applications, and any other voids in the membrane.

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 compatible primer. When priming, substrate and ambient temperature must be 40°F (4°C)d rising for a minimum of 24 hours.

LIMITATIONS

- Optimal application temperatures are between 20°F and rising to 110°F (-6.7°C to 43.3 °C). See Technical Data table for functional temperature limits.
- 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 1 year) UV exposure
- CMU surfaces: joints should be struck flush with the surface (smooth) to prevent water infiltration behind the membrane.

LIMITED WARRANTY

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

HEALTH & SAFETY

Refer to Safety Data Sheet at www.stocorp.com

BUILDING CODE COMPLIANCE

- Complies with IBC, IRC, and IECC requirements as an Air Barrier Material
- Complies with ICC-ES AC38 requirements as a Water-resistive Barrier (WRB)
- Class A Building Material

Use on Noncombustible Construction in Sto Wall Systems[1]:

Sto System	Height Restricition[2]	Notes	Report or 2024 IBC Section
StoTherm® ci Systems	Not permitted[3]	N/A	N/A
StoPowerwall® DrainScreen	No restriction	N/A	JH EJ 032726
StoPowerwall® DrainScreen MVES	No restriction	N/A	JH EJ 032726
StoPowerwall® ci	No restriction	Sto Lamella Fireblocking required	JH EJ 032726
StoQuik® Silver	≤ 40 ft above grade	N/A	IBC 1402.6
StoQuik® Silver MVES	≤ 40 ft above grade	N/A	IBC 1402.6
StoVentec® Glass	No restriction	Requires min 2-in, 4 pcf Mineral Wool	DRJ 2312-07
StoVentec® Render	No restriction	Requires min 2-in, 4 pcf Mineral Wool	CCRR 0454
StoVentec® MVES	No restriction	Requires min 2-in, 4 pcf Mineral Wool	CCRR 0454
StoVentec® Fiber Cement	No restriction	Sto AWRB only combustible in assembly	IBC 1402.6.1

1. When used on Combustible Construction, allowable heights are as permitted by the applicable building code
2. Height restriction is based on fire protection requirements of the 2024 IBC (International Building Code). Other factors such as wind load must also be considered.
3. See ICC-ESR 1748 for assemblies permitted with other Sto AWRBs

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TECHNICAL DATA

TEST	METHOD	TEST CRITERIA	RESULTS*
Air Leakage Resistance (Material)	ASTM E2178	Less than 0.02 L/s/m^2	Pass
Surface Burning	ASTM E84	Flame Spread less than 25 Smoke Developed less than 450	Flame Spread: 15 Smoke Developed: 55
Tensile Bond to Substrates	ASTM C297	Minimum 15 psi (6.89 kPa)	Greater than 15 psi (6.89 kPa) to glass mat gypsum, plywood, OSB sheathings
Tensile Adhesion (80265, 81636 Sto Gold Coat to Membrane)	ASTM D4541	Minimum 15 psi (6.89 kPa)	19 psi (131 kPa), 31 psi (213 kPa)
Water Vapor Transmission	ASTM E96 Method A	Measure	0.096 Perms (5.49 ng/s●m^2●Pa)
Installation Temperature Range	Lab Method	Measure	0 to 140°F (-17.8 to 60°C)
Service Temperature Range	AAMA 711	Measure	-40 to 240°F (-40 to 115°C)
Elongation	AAMA 711-Section 5.2 /ASTM D3759, Procedure A	Measure	508%
Tensile Strength	AAMA 711-Section 5.2 /ASTM D3759, Procedure A	Measure	10.96 pli (1.919 N/mm)
Water Penetration Resistance Around Nails		1.2 in (31mm) water column	No water leakage
Peel Adhesion to Substrates	AAMA 711-Section 5.3 /ASTM D3330	1.5 lb/in (0.26 N/mm) minimum to Anodized Aluminum, Plywood, OSB, Rigid Vinyl, Glass Mat Gypsum, CMU, Concrete	Pass
Peel Adhesion to substrates after Accelerated Aging	AAMA 711-Section 5.4 / ASTM G154 / D3330	Verify appearance and peel adhesion after exposure period to Anodized Aluminum	Pass
Peel Adhesion after Elevated Temperature Exposure	AAMA 711-Section 5.5 / ASTM D3330	Verify peel adhesion after 7 days at 176°F (80°C)	Level 3, Pass
Peel Adhesion after Thermal Cycling	AAMA 711-Section 5.6 / ASTM D3330	Verify appearance and peel adhesion after 10 freeze/thaw cycles (8h at 120°F [50°C], 16h at -40°F [-40°C]) to Aluminum	Pass
Cold Temperature Pliability	AAMA 711-Section 5.7 / ASTM D1970 / D1970M	No cracking or loss of adhesion after 2 hours at 0°F (-18°C)	Pass
Peel Adhesion after Water Immersion	AAMA 711-Section 5.8 / ASTM D3330	Verify peel adhesion to Annodized Aluminum after 7-day immersion	Pass
Resistance to Peeling	AAMA 711	AAMA 711 Annex A	Pass
Air Leakage Resistance (Assembly)	ASTM E2357	Less than 0.2 L/s/m^2	Pass
*Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests			

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ATTENTION

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. **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.** 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, www.stocorp.com