



SUBSTITUTION REQUEST

Project: Centennial Plaza Substitution Request Number: #05
 From: Bob Tayson
 To: SoL Harris/Day Architecture Date: 6-30-9
 A/E Project Number: c1`8514
 Re: Product Substitution Request Contract For: Fluid Applied Air and Vapor Barriers

Specification Title: Fluid Applied Air and Vapor Barriers Description: Grace Perm-a-Barrier and others
 Section: 072726 Page: _____ Article/Paragraph: 2.1

Proposed Substitution: StoGuard Vapor Seal system
 Manufacturer: Sto Corp Address 3800 Camp Creek Atlanta, GA Phone: 888-786-2955
 Trade Name: StoGuard Model No.: _____

Attached data includes product description, specifications, drawings, photographs, and performance and test data adequate for evaluation of the request; applicable portions of the data are clearly identified.

Attached data also includes a description of changes to the Contract Documents that the proposed substitution will require for its proper installation.

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- Same warranty will be furnished for proposed substitution as for specified product.
- Same maintenance service and source of replacement parts, as applicable, is available.
- Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
- Proposed substitution does not affect dimensions and functional clearances.

Submitted by: Bob Tayson
 Signed by: Bob Tayson
 Firm: Sto Corp
 Address: 3800 Camp Creek Pkwy #1400
Atlanta, GA 30331
 Telephone: 888-786-2955

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01330.
 Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
 Substitution rejected - Use specified materials.
 Substitution Request received too late - Use specified materials.

Signed by:

Date: 7/3/19

Supporting Data Attached: Drawings Product Data Samples Tests Reports _____



CITY OF CANTON
Centennial Plaza Project

PRE-BID SUBSTITUTION FORM

1. Note. Certain brands of material or apparatus are specified. Each bid will be based on these brands, which may be referred to in the Contract Documents as Standards. The use of another brand (referred to as a substitution or proposed equal in the Contract Documents, when a bidder or the contractor seeks to have a different brand of material or apparatus than that specified approved by the Owner for use in the Project) may be requested as provided in the Instructions to Bidders. Substitutions, however, unless approved and issued in an Addendum, will not be considered in determining which bidder to award the contract to.

2. The detailed procedures for submitting substitutions are set forth in Paragraph K of the Instructions to Bidders.

Specification Section	Brand or Name Specified	Proposed Substitution
07 27 26	Procoso R-Guard VB	StoGuard Systems, VaporSeal

Listed Manufacturers, include:

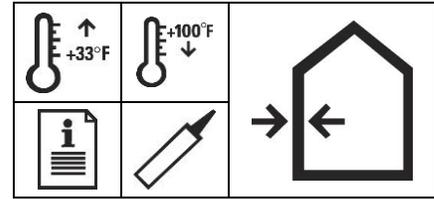
Acceptable Manufacturers:

1. Procoso R-Guard VB (Basis-of-Design)
2. W.R. Meadows; Air Shield LM (All Season)
3. Carlisle ; Barriseal-S Spray Applied
4. Grace Construction Products (Perm-a-Barrier Liquid)
5. Polyguard Products, Inc. (Poly Wall Airlok Flex)
6. BASF Wall Systems, (Enershield-I)

Please see attached, the literature for StoGuard VaporSeal indicating an equal request.

Sto RapidGuard™

81571-740 Sto RapidGuard™ Cartridge
81571-741 Sto RapidGuard™ Sausage



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Water Penetration Resistance	AATCC-127 (water column)	Resist 21.6" (55 cm) water for 5 hours	No water penetration
Tensile Strength	ASTM D 412	Measure	250 psi (1724 kPa)
Elongation at Break	ASTM D 412	Measure	400%
Durometer Hardness	ASTM D 2240	Shore A	40-45 points
Adhesion (psi)	ASTM D4541	>50 psi (345 kPa) or substrate failure: OSB, Plywood, Concrete, CMU, Vinyl, Galvanized Steel, and Gypsum Sheathing	> 50 psi (345 kPa) > 20 psi (138 kPa) to gypsum sheathing (substrate failure)
Water Vapor Permeability (@DFT)	ASTM E 96 (wet cup method)	Measure	6.18 perms @ 20mils (353 ng/s•m ² •Pa) 5.37 perms @ 30 mils (307 ng/s•m ² •Pa)
% Solids by Volume	Calculation	Calculated	98%
VOC Content	Calculation	Compliant with EPA and South Coast AQMD requirements for Building Envelope Coatings	< 21 g/L

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

Features	Benefits
1 Fast Cure	Allows work to proceed quickly without costly delays and interruptions to work schedule
2 Eliminates mesh, fabric and tapes at rough openings and sheathing joints	Simplifies and speeds application
3 Cures in wet weather and on damp substrates	Avoids costly wet weather work shut downs or wash-offs; adheres to damp substrates without an increase in drying time.
4 Gun applied	Does not require highly skilled applicator work force; easy to install around complex geometries
5 Excellent elongation	Bridges static cracks and seams in construction without tearing or compromise in performance
6 Water vapor permeable	Resists blistering

Surface Preparation

Surfaces must be fully cured, structurally sound, clean, and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, efflorescence, form oil and other foreign matter. Sheathing must be Exterior Grade or Exposure 1 wood-based sheathing, or building code compliant glass mat gypsum or cement-based sheathing.

Sheathing must be installed in compliance with the building code and manufacturer's recommendations. Galvanized metal surfaces should be solvent wiped with cotton cloth to remove surface contamination. May be applied to clean, dry pressure-treated and fire-retardant treated plywood. Surfaces may be damp but must not have standing water or other bond inhibiting material on them.

Sto RapidGuard™ is a one-component air barrier and waterproof material used to protect rough openings, sheathing joints, seams, cracks, penetrations, and other transitions in above grade wall construction. Rapid drying time will usually allow for same day installation of other Sto air barrier components.

Sto RapidGuard™ is compatible with most common building materials, including concrete, concrete masonry, brick, galvanized steel, and gypsum, wood, and cement-based sheathing.

Approximate Coverage

Gypsum Sheathing Joints-applied at 20-30 WFT at 2 inch (51mm) width:
60-90 lf (18-27 m) / cartridge
40-60 lf (12-18 m) / sausage

Rough Openings-applied at 12-20 WFT

2 x 4 framing

30-50 lf (9.1-15 m) / cartridge
21-34 lf (6.4-10.4 m) / sausage

2 x 6 Framing

22-35 lf (6.7-10.7 m) / cartridge
15-24 lf (4.6-7.3 m) / sausage

Coverage may vary depending on substrate conditions, sheathing joint gap, application technique, waste factor, and final film thickness.

Packaging

29 oz. (0.86 L) cartridges
12 cartridges per case

20 oz. (0.6 L) sausages
20 sausages per case

Shelf Life

12 months if properly stored and sealed.

Storage

Store in a cool (less than 80°F [27°C]), dry area. Protect from heat, moisture and direct sunlight. Keep from freezing. Store away from sources of ignition.

Sto RapidGuard™

Mixing

Not required. Ready to use.

Application

Sto RapidGuard may be applied over or under any of the Sto air and moisture barrier coatings: Sto Gold Coat, Sto Gold Coat-TA, Sto AirSeal, Sto EmeraldCoat, and Sto VaporSeal. Apply with a caulking gun. Spread with a dry joint knife, trowel or spatula while material is still wet, usually within 2-3 minutes of gun application. Seal voids or pinholes with additional material. Do not use soapy water when spreading. **IMPORTANT:** top coat with Sto air and moisture barrier coating when dry to touch or within 48 hours of drying for best adhesion.

Rough Opening Protection: apply a fillet bead of material at interior corners inside the opening to seal jamb/sill and jamb/head seams. Apply material in a zig-zag pattern along sill, jambs, and head to form a generous bead of material along the surface to be covered. Spread the material to a uniform thickness of 12-20 mils (0.3-0.5 mm) before the material skins. Treat the entire rough opening surface in this manner and overlap onto the face of the sheathing 2 inches (51 mm) minimum all the way around.

Sheathing Joints: apply a thick bead of Sto RapidGuard with a caulking gun along sheathing joints, or apply in a zig-zag pattern across and down the joints. Spread to a uniform thickness of 20-30 mils (0.5-0.8 mm) in a 2 inch (51 mm) width centered over the joints before the material skins. Follow the same procedure for inside and outside corners.

Flashing Shiplap Detailing: Apply a thick bead of Sto RapidGuard across the flashing leg/wall surface seam or apply in a zig-zag pattern across the seam. Spread to create a seamless counter-flashing that covers fastener penetrations and

directs water away from the wall. Flashing may also be bedded in Sto RapidGuard and then counter-flashed.

Through Wall Penetrations (e.g., pipe, electrical box, and scupper penetrations): penetrations must be fitted snug against abutting wall surfaces. Apply a fillet bead of Sto RapidGuard around the penetration and spread onto both surfaces (wall surface and penetration). Create a bead profile that directs water away from the wall penetration with 1 inch (25 mm) minimum on the wall surface and ½ - 1 inch (13-25 mm) on the penetrating element.

Fasteners and Masonry Ties: spot fasteners to seal fastener penetrations. Bed masonry ties or apply from flange of masonry tie to the wall surface around the tie.

IMPORTANT: Sto RapidGuard fills static joints up to ½ inch (13 mm) wide. If larger gaps exist between sheathing joints, or between the penetration and the sheathing, alternative transition detailing may be used, or other steps may be necessary to correct the deficient condition. Refer to Sto details.

Curing and Drying: Product cures with moisture in the atmosphere. Full cure occurs within 24 hours and final physical characteristics at 7 days when installed at standard conditions (50% RH and 70°F [21°C]). Drying time and full cure time is slower with low temperature/low humidity and faster with high temperature/high humidity.

Clean Up: Clean tools by removing wet material with a rag before the material cures. Cured material can be removed with a citrus solvent, xylene or mineral spirits. Exercise care when handling cleansing agents and follow precautions on packaging.

Health And Safety

DANGER!

May damage the fertility or the unborn child.

Health Precautions

Breathing large amounts of vapor may be harmful. Can cause eye irritation. Symptoms include redness and burning of skin. Swallowing large amounts may be harmful.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

First Aid

SKIN CONTACT: Remove contaminated clothing and shoes. Use a waterless hand cleaner to remove as much material as possible. Wash with soap and water. Wash clothing and decontaminate shoes before re-use. Get medical attention if irritation develops and persists.

EYE CONTACT: Do not attempt to remove solids or gums from the eye. Immediately rinse eyes with lukewarm gently flowing water for 20 minutes, holding the eyelids open. After 5 minutes, remove contact lenses, if present and possible, and continue rinsing. Get medical attention immediately.

RESPIRATORY PROBLEMS: Remove from area to fresh air. If not breathing clear airway, start mouth-to-mouth artificial respiration or use a bag mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and, if available, give supplemental oxygen.

INGESTION: DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious or convulsing person. Have victim rinse out mouth and drink 8-10 oz (240-300 ml) of water to dilute the material in stomach. Get immediate medical attention.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Spills

Collect with suitable absorbent material such as cotton rags.

Disposal

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) for further health and safety information. Safety Data Sheet (SDS) is available at www.stocorp.com.

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp. Refer to *Sto Specifications for more complete information on proper use and handling of this product.*

Limitations

- Use only when surface and ambient temperatures are above 33°F (0.6°C) and below 100°F (37.8°C) during application and drying period.
- Do not use on surfaces with standing water or frost.
- Do not use below grade or on surfaces subject to in-service water immersion
- Do not use as a structural sealant, as an expansion joint sealant, or as an exposed weather seal.
- Allowable in-service temperature range: -22°F to 302°F (-5.5°C to 150°C).
- Do not use to fill gaps, seams or cracks greater than ½ inch (13 mm) wide.
- Do not use in place of appropriate through wall flashing.
- Chemically compatible with most silicone and urethane sealants; always verify adhesion with lab or field tests under actual conditions of use
- Fire-retardant or pressure treated plywood must be dry with surface free of salts or other chemicals migrating from within the wood. Test adhesion to be sure of desired results.
- Do not leave exposed to weather for more than 30 days. Requires permanent protection with wall cladding or other finish material.

Sto Corp.

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

www.stocorp.com

S155-81571

Revision Number: A000
Date: 04/2018

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.

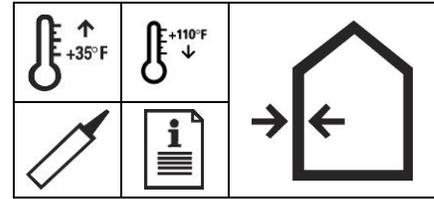
Competitive Chart - Air/Vapor Barriers

Property	Sto: StoGuard™ VaporSeal	WR Grace: Perm- a-Barrier® Liquid	Henry/Bakor: Air-Bloc 21S	Carlisle: Barriseal™ R	WR Meadows: Air-Shield™	Tremco ExoAir™ 120
Vehicle/Emulsion Type	Water-based	Solvent-based	Solvent-based	Water/asphalt emulsion	Water-based	Water-based
Application requirements	Spray, roller, trowel or putty knife	Stainless steel trowel or spray apply	Spray applied	Roller or brush applied	Roller, brush or spray applied	Spray or roller applied; when spraying, use cross-hatching technique
Application temperature limitations	Above 40°F	20°F or above for spray application; contact technical for more information	10°F to 104°F	50°F or above	40°F or above	40°F or above
Machines used to install products	Graco airless machines or Sto M-8	Airless; contact Grace for more information	Graco President 10:1 pump, Graco Mastic Gun 204-000	N/A	Appropriately configured airless spray equipment	Not stated
Approved sheathings	Gypsum, Dens Glass® Gold, plywood, OSB, CMU	Gypsum, Dens Glass® Gold, plywood, OSB, CMU	Gypsum, Dens Glass® Gold, plywood, CMU	Concrete, CMU, or exterior sheathing	Gypsum, Dens Glass Gold, plywood, OSB, CMU	Do not list substrates
Color	Light gray	Green	Cream	Initially brown - turns black after curing	Black	Black
Vapor permeance ASTM E 96	0.063 Perms (Method A)	0.08 Perms (Method A)	.055 Perms (Method not reported)	0.02 Perms (Method not reported)	.03 Perms (Method B)	.08 Perms (Method A)
Air Leakage Rate ASTM E 2178	Pass	.00012	.0024	.01	.004	.00120
Coverage	Sheathing – 200-225 ft ² / pail CMU – 125-150 ft ² / pail	125 ft ² / pail	95 ft ² /pail	77.5 ft ² / pail (Barriseal R - based on 5 gallon unit applied in 2 coats at 30 wet mils per coat or 31 ft ² /gallon)	100 ft ² / pail	Not listed
Mil thickness	30 wet mils	60 wet mils	90 to 120 wet mils	30 wet mils per coat	60 wet mils	60 wet mils
Drying time	Up to 4 hrs	Not reported	Initial Set – 24 hrs Set through – 7 days	Not reported	Tack free film – 1 hr Full Cure – 48 hrs	16 -24 hrs
Coats required	1 – spray 2 – roller	1	1	2	1 – spray 2 – brush or roller	1
Exposure to sunlight	2 months	60 days	"Not intended for long term exposure"	"Not intended for long term exposure"	"Not intended for long term exposure"	30 days
Sheathing joint treatment	Mesh with Sto Gold Fill®	Use Perm-A-Barrier® liquid with reinforced	Use trowel applied Air-Bloc 21S and	Use Barriseal™ R- with reinforcing	Use Air-Shield LM with mesh over all	Use ExoAir with self-adhered mesh

	Or StoGuard Fabric with Sto VaporSeal	mesh	2" mesh	fabric	joints	
Sealing Properties	Passes ASTM D 1970	Passes ASTM D 1970	Seals around projections	Seals around penetrating fasteners		Not stated
Packaging	5-gallon pail	5-gallon pail – 2 components (cannot use partial mixes)	5-gallon pail	5-gallon pail	5-gallon pail	55-gallon drums
Flammable	No	Yes	Yes	No	No	No
VOC Grams/liter	Less than 50 g/L	Less than 75 g/L	350 g/L	Not reported	Not reported	Not reported
Installed cost estimates	\$1.75 - \$2.75	\$2 to \$4	\$2 to \$4	\$2.50 to \$3.50	\$1.70 to \$3.00	\$2 to \$4
Warranty Terms	5 years	5 years	1 year	Free of defects at the time of shipment.	Free of defects at the time of shipment.	Free of defects at the time of shipment.

StoGuard[®] RapidFill[™]

81295 StoGuard[®] RapidFill[™]



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Water Penetration Resistance	AATCC-127 (water column)	Resist 21.6" (55 cm) water for 5 hours	No water penetration
Adhesion (psi)	ASTM D 4541	> 50 psi (345 kPa) or sheathing failure	> 40 psi (276 kPa) to gypsum sheathing (core failure of sheathing) > 80 psi (552 kPa) to OSB
Elongation at Break	ASTM D 412	N/A	275%
Tensile Strength	ASTM D 412	N/A	225 psi (1151 kPa)
Water Vapor Permeability	ASTM E 96 wet cup method	N/A	14 perms at 35 DFT (805 ng/Pa·s·m ²)
Surface Burning	ASTM E 84	Flame Spread: < 25 Smoke Developed: < 450	Flame Spread: < 25 Smoke Developed: <450 NFPA and ICC Class A Building Material
% Solids by Volume	Calculation	N/A	99%
VOC Content	Calculation	Compliant with EPA and South Coast AQMD Requirements	Compliant, ≤ 30 g/L

StoGuard[®] RapidFill[™] is a one-component air barrier and waterproof material used to seal sheathing joints, seams, cracks, and transitions in above grade wall construction. Rapid drying time will usually allow for same day installation of other Sto air barrier components.

StoGuard[®] RapidFill[™] is compatible with most common building materials, including concrete, concrete masonry, brick, gypsum sheathing, wood, galvanized metal and cement based sheathings.

Coverage

Approximately 60-95 lineal feet (18-29 m) of joint per cartridge or 35-60 lineal feet (10-18 m) per sausage when applied at 20-30 wet mils (0.5-0.8 mm) with 1 inch (25 mm) on each side of sheathing joint.

Coverage will vary depending on application technique, sheathing joint gap, and surface conditions. Rough surfaces will reduce coverage.

Packaging

29 oz. (0.86 L) cartridges
12 cartridges per case

20 oz. (0.6 kg) sausages
20 sausages per case

Shelf Life

12 months if properly stored and sealed.

Storage

Store in a cool (less than 80°F [27°C]), dry area. Protect from heat, moisture and direct sunlight. Keep from freezing.

Features Benefits

1 Fast cure	Allows work to proceed quickly without costly delays and interruptions to work schedule
2 Eliminates mesh, fabric and tapes at sheathing joints (when used with other StoGuard air barrier membranes)	Simplifies and speeds application
3 Cures in wet weather and on damp substrates	Avoids costly wet weather work shut downs or wash-offs; adheres to damp substrates without blistering or increase in drying time
4 Installs down to near freezing temperatures (35°F [2°C])	Extends construction period deeper into cold weather season
5 Chemically compatible with urethane and silicone sealants and coatings	Facilitates continuity with other air barrier, moisture barrier or waterproofing components; minimizes construction sequencing issues (Always perform tests to verify compatibility and adhesion)
6 Easy to install	Does not require highly skilled applicator work force – reduces labor costs
7 High build, tough, resilient surface	Prevents damage during construction and costly repairs
8 Excellent Elongation	Bridges cracks and seams in construction without tearing or compromise in performance
9 Can be overcoated	Compatible with other Sto liquid applied air and moisture barrier components; facilitates continuity at transition areas in construction
10 Low VOC and South Coast AQMD Compliant	Compliant with all national, state and local VOC regulatory requirements; can be used throughout the US and Canada. Qualifies for LEED credits
11 Water Vapor Permeable	Resists blistering caused by trapped water vapor
12 Liquid Application	Easy to create an airtight seal around complex geometrical shapes

StoGuard[®] RapidFill[™]

Surface Preparation

Surfaces must be clean and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, efflorescence, form oil and other foreign matter. Wood, concrete, or concrete masonry may be damp with no adverse effect on adhesion. Galvanized metal surfaces should be solvent wiped with cotton cloth to remove surface contamination. May be applied to clean, dry pressure-treated and fire-retardant treated plywood. Surfaces must not have standing water on them.

Mixing

Not required. Ready to use.

Application

StoGuard RapidFill may be applied over or under any of the Sto air and moisture barrier coatings:

- Sto EmeraldCoat
- StoGuard VaporSeal
- Sto AirSeal
- Sto Gold Coat (StoTherm[®] ci Systems)

Apply with a caulking gun. Tool or spread with a DRY joint knife, trowel or spatula while material is still wet, usually within 2-3 minutes of gun application. Seal voids or pinholes with additional material. Do not use soapy water when tooling or spreading.

Sheathing Joints

Apply to properly installed sheathing - butted joints for gypsum sheathing, and gapped joints for plywood and OSB sheathings (wood-based sheathing typically requires 1/8 inch (3 mm) spacing at edge and end joints). Apply a thick bead of StoGuard RapidFill with a caulking gun along sheathing joints, or apply in a zig-zag pattern across and down the joints. Spread to a uniform thickness of 20-30 mils (0.5-0.6 mm). Spread 1 inch (25 mm) beyond the sheathing joint on each side. Follow the same procedure for inside and outside corners.

Transition Detailing

Flashing Transition: where possible bed the flashing leg in a thick bead of StoGuard RapidFill, tool the material along the top edge of the flashing, and secure the flashing in place with fasteners. Make sure the flashing leg is flat against the wall surface. Apply a thick bead of StoGuard RapidFill along the flashing leg/wall surface seam or apply in a zig-zag pattern across the seam. Spread to create a seamless counter-flashing that covers fastener penetrations and directs water away from the wall.

Through Wall Penetrations (pipe, electrical box, and scupper penetrations): penetrations must be fitted snug against abutting wall surfaces. Apply a fillet bead of StoGuard RapidFill around the penetration and tool against both surfaces (wall surface and penetration). Create a bead profile that directs water away from the wall penetration.

Fasteners and Masonry Ties: spot fasteners to seal fastener penetrations. Apply as a backer seal beneath masonry ties or apply from installed flange of masonry tie to wall surface around the tie.

IMPORTANT: StoGuard Rapid Fill can fill joints up to ½ inch (13 mm) wide. In cases where large gaps exist between sheathing joints, or between the penetration and the sheathing, alternative transition detailing may be used, or other steps may be necessary to correct the deficient condition. Refer to Sto details.

Curing and Drying

Product is moisture curing. Tack free time is 30 minutes and drying time is within 4 hours under normal conditions (70°F [21°C] and 50% RH). Drying time is slower with low temperature/low humidity and faster with high temperature/high humidity.

Clean Up

Clean tools by removing wet material from the drywall knife with a rag before the material cures. Cured material can be removed with a citrus solvent, xylene or mineral spirits. Exercise care when handling cleansing agents and follow precautions on packaging.



StoGuard® RapidFill™

Limitations

- Use only when surface and ambient temperatures are above 35°F (2°C) and below 110°F (43°C) during application and drying period.
- Do not use on surfaces with standing water or frost.
- Do not use below grade or in locations that are continually immersed in water
- Do not use as a structural sealant, as an expansion joint sealant, or as an exposed weather seal.
- Do not use to fill gaps, seams, or cracks greater than ½ inch (13 mm) wide.
- Do not use in place of appropriate through wall flashing.
- When top coating with StoGuard or other Sto coatings apply top coat after material skins and within 48 hours of drying.
- Do not leave exposed to weather for more than 30 days. Requires permanent protection with wall cladding or other finish material.

Health And Safety

DANGER!

May damage the fertility or the unborn child.

Health Precautions

Breathing large amounts of vapor may be harmful. Can cause eye irritation. Symptoms include redness and burning of skin. Swallowing large amounts may be harmful.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

First Aid

SKIN CONTACT: Wash affected areas with large amounts of running water and soap, if available, for 15 minutes. Remove contaminated clothing and shoes. Wash clothing and decontaminate shoes before re-use. Get medical attention if irritation develops and persists. **EYE CONTACT:** Immediately rinse eyes with water. Remove any contact lenses. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Continue flushing eyes with running water for at least 15 minutes. Get medical attention if irritation develops. **RESPIRATORY PROBLEMS:** Remove from area to fresh air. If not breathing clear airway and start mouth-to-mouth artificial respiration or use a bag mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and, if available, give supplemental oxygen.

INGESTION: DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Spills

Collect with suitable absorbent material such as cotton rags.

Disposal

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) for further health and safety information. Safety Data Sheet (SDS) is available at www.stocorp.com.

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp. Refer to Sto Specifications for more complete information on proper use and handling of this product.

Sto Corp.
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Building 1400, Suite 120
Atlanta, GA 30331

Tel: 404-346-3666
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www.stocorp.com

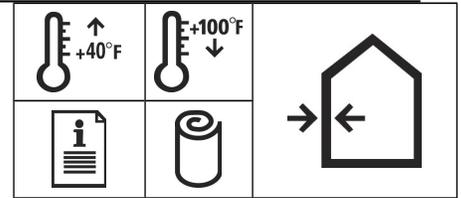
S155-81295
Revision Number: A3.4
Date: 06/2016

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.

StoGuard® Transition Membrane

- 81272 StoGuard Transition Membrane 4.75" Flexible Waterproof
- 81342 StoGuard Transition Membrane 6" Air Barrier Membrane
- 81343 StoGuard Transition Membrane 9"
- 81344 StoGuard Transition Membrane 12"
- 81349 StoGuard Transition Membrane 18"



Technical Data	Width of Roll	Length of Roll	Thickness
StoGuard Transition Membrane	4.75" (120 mm)	164' (50 m)	25 mils
	6" (152 mm)	164' (50 m)	25 mils
	9" (228 mm)	164' (50 m)	25 mils
	12" (304 mm)	164' (50 m)	25 mils
	18" (457 mm)	164' (50 m)	25 mils
TEST	TEST METHOD	TEST CRITERIA	TEST RESULTS
Elongation ¹	ASTM D 412	Measure	260%
Tensile Strength ¹	ASTM D 412	Measure	60 psi (.41 MPa)
Tear and Adhesion Properties at 25% Elongation	ASTM C 1523	No tearing or loss of adhesion after conditioning	Pass after dry, wet, frozen, and heat aged conditioning
Water Vapor Permeance	ASTM E 96	Measure	1.48 perms (85ng/Pa*s*m ²)
Air Leakage ²	ASTM E 2178	≤ 0.02 L/m ² *s @ 75 Pa (≤ 0.004 cfm/ft ² @ 1.57 psf)	Pass
Water Column	AATCC 127 (modified)	No leakage for 5 hours minimum	Passed
Adhesion	ASTM D 4541	≥ 60 psi (414 kPa)	Pass on plywood, OSB, concrete, and CMU substrates. Exceeds strength of glass mat facing attachment when adhered to glass mat gypsum sheathing
Cyclic Elongation	Lab Method	500 cycles at 0% to 50% elongation and return	No loss of continuity of membrane or loss of bond at joint.

¹ Elongation and Tensile strength measured in transverse direction (perpendicular to length of roll).
² Based on extrapolation of similar E 2178 test data.

Features	Benefits
1 Waterproof	Virtually impermeable to the passage of liquid water.
2 Flexible	Accommodates wide range of conditions and building tolerances where peel and stick membranes may not work.
3 Fully adhered membrane	Does not peel or suffer loss of adhesion along edges.
4 Fast and easy to install	No priming required. No special tools or training required for installers.
5 Durable	Does not tear or lose its effectiveness while in service
6 Resists UV Degradation	Gives peace of mind if construction delays occur; up to 6 months exposure (when protected with Sto Gold Coat, Sto EmeraldCoat or Sto AirSeal), 3 months if protected with Sto VaporSeal or Sto ExtraSeal.

StoGuard® Transition Membrane is a flexible air barrier membrane for use on vertical above grade wall construction over properly prepared concrete, concrete masonry (CMU), glass mat gypsum sheathing and Exterior or Exposure 1 wood-based sheathing. It is used with StoGuard waterproof air barrier membranes including Sto Gold Coat®, Sto EmeraldCoat®, Sto AirSeal™, Sto VaporSeal™ and Sto ExtraSeal™. It is used at detail areas to provide flexible connections to achieve continuity of the air barrier assembly. It also functions as a secondary weather seal at joints in construction.

Use for continuity at transitions:

- Sheathing to foundation
- Dissimilar materials (e.g CMU to frame wall)
- Wall to balcony floor slab or ceiling
- Flashing shingle lap transitions
- Floor line deflection joints
- Masonry control joints
- Through-wall joints in masonry or frame construction

Packaging
 164 lineal feet (50 m) per roll;
 1 roll per box.

Shelf Life
 2 years if properly stored.

Storage
 Store in a cool, dry area. Protect from direct sunlight.

Compliance
 IECC -2012 Compliant
 ASHRAE 90.1 Compliant
 ASHRAE 189.1 Compliant

Features cont.	Benefits
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StoGuard® Transition Membrane

7	No adhesive leaching or streaking	Will not stain surfaces or lose adhesion while in service.
8	Compatible with all StoGuard fluid-applied and cementitious membranes	Can be used with vapor permeable or vapor impermeable membranes, fluid-applied or cementitious trowel-applied.
9	Versatile	Wide range of applications for both static and moving joint conditions – one product solves multiple job site conditions.
10	Sustainability	Asphalt emulsion free. Used with Low VOC StoGuard coatings; EPA and SCAQMD compliant.

Surface Preparation

Surfaces must be structurally sound, clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, mildew, algae, laitance, efflorescence, form oil, curing compounds, coatings, chalking and other foreign matter. Sheathing must be code compliant Exterior Grade or Exposure 1 wood-based sheathing or glass mat gypsum sheathing in compliance with ASTM C 1177. Sheathing must be installed in compliance with the building code and manufacturer's recommendations. CMU surfaces should have flush joints. Concrete and CMU surfaces must be without projecting ridges, form ties or other surface irregularities. See surface preparation instructions for StoGuard waterproof air barrier coatings for additional guidance.

Mixing

No mixing required.

Application

StoGuard Transition Membrane is installed with any of the StoGuard fluid-applied air barrier products: Sto Gold Coat, Sto EmeraldCoat, Sto AirSeal or Sto VaporSeal. It also may be installed using Sto ExtraSeal cementitious, trowel-applied air barrier material. Provide adequate ventilation during application and drying of these products.

Surface and ambient temperature must be minimum 40° F (4° C) and rising during application and drying period and below 100°F (38° C). Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

Cut lengths of StoGuard Transition Membrane with scissors or a sharp utility knife. Use the longest lengths possible to minimize overlaps. Use caution when cutting membrane already on the wall to ensure the cuts do not inadvertently damage in-place membrane.

For floor line deflection joints, static joints and transitions – sheathing to foundation, dissimilar materials (e.g. CMU to frame wall), flashing, shingle-lap transitions, wall to balcony floor slab or ceiling:

Apply the StoGuard waterproof membrane coating liberally to properly prepared surfaces with brush, roller, or spray. (Apply Sto ExtraSeal by trowel.) Apply only as much material as can be covered with the transition membrane while the coating is still wet. Install the membrane by placing pre-cut lengths into the wet StoGuard coating with the length centered over the transition area. At changes in plane crease the membrane and similarly place the membrane in the wet coating. Top-coat the membrane with additional coating and apply pressure with brush or roller to fully embed the membrane in the coating and achieve a smooth and wrinkle-free surface without gaps or voids. Apply liberally along all top horizontal edges on walls and along all edges on balcony floor slabs. Overlap minimum 2 inches (50 mm) at ends and adhere lap seams together with coating. Shingle-lap vertical seams and vertical to horizontal intersections with minimum 2 inch (50 mm) overlap.

For movement joints up to 50% movement – masonry control joints, through-wall joints in masonry or frame construction:

Insert backer rod sized to friction fit in the joint (diameter 25% greater than joint width). Recess the backer rod ½" (13 mm). Apply StoGuard coating liberally to properly prepared surfaces with brush, roller or spray along each side of the joint. Immediately place the membrane by looping it into the joint against the backer rod surface to provide slack. Embed the membrane in wet coating along the sides of the joint by top-coating with additional coating material and applying pressure with a brush or roller.

After the membrane installation is complete and the StoGuard waterproof coating is dry, apply a liberal coat of the waterproof coating to all top horizontal edges on walls to ensure waterproofing integrity. Similarly apply coating at all edges on balcony floor slabs. Inspect the installed membrane for fish mouths, wrinkles, gaps holes or other deficiencies. Correct fish mouths or wrinkles by cutting, then embedding the area with additional coating applied under and over the membrane. Seal gaps, holes and complex geometries at three-dimensional corners with StoGuard RapidSeal.

Refer to StoGuard Transition Membrane Installation Guide at www.stocorp.com for more detailed instructions and illustrations.

StoGuard® Transition Membrane

Application cont.

Curing/Drying

StoGuard coatings generally dry in 2-6 hours under normal drying conditions [70°F (21°C), 50% RH] and cure within 24 hours. Protect from rain and freezing until completely dry. Cold weather or damp conditions will prolong drying period. Hot or dry weather will accelerate drying.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Limitations

- Use only when surface and ambient temperatures are and will remain above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- Maximum exposure 6 months when protected with StoGuard fluid-applied air barrier membrane coatings – StoGold Coat, Sto EmeraldCoat and Sto AirSeal, 3 months with Sto VaporSeal and Sto ExtraSeal. Maximum exposure period is 30 days if left unprotected
- Not recommended at service temperature exposures lower than -20°F (-30°C) or higher than 194°F (90°C).
- Not recommended for moving joints in excess of 1 inch (25 mm) width or +50% movement.
- Do not use on surfaces with standing water, below grade, or on surfaces subject to water immersion.
- Not recommended as a primary outer weather seal or where exposed permanently to weather.

Health And Safety

Health Precautions

As with any chemical construction product, exercise care when handling.

Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended.

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush affected areas with water and contact a physician.

RESPIRATORY PROBLEMS: If respiratory irritation occurs, go to fresh air. Flood work area with fresh air and if irritation continues, seek medical attention.

HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Disposal

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 for further health and safety information.

LIMITED WARRANTY

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

Refer to Sto Specifications for more complete information on proper use and handling of this product.

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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.

StoGuard® VaporSeal™

8026 StoGuard® VaporSeal™
High Build Vapor Barrier, Air Barrier, WRB



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Low Temperature Crack Bridging	ASTM C1305	No cracking after 10 cycles at -15°F (-26°C)	Pass
Elongation	ASTM D412	Measure	> 500%
Tensile Strength	ASTM D412	Measure	> 200 psi (1 78 kPa)
Nail Sealability	ASTM D1970	No leakage	Pass
Resistance to Mold Growth	ASTM D3273	No growth at 30 days	Rating = 10 (no growth) at 90 days
Adhesion to substrates	ASTM D4541	≥ 15 psi (103 kPa)	> 15 psi (103 kPa) over Glass Mat Gypsum > 50 psi (344 kPa) over concrete, OSB & plywood
Water Vapor Permeance	ASTM E96 Method A	< 0.1 perms (5.7 ng/Pa·s·m²)	0.06 US perms (0.4 ng/Pa·s·m²)
Air Leakage	ASTM E2178	< 0.02 L/m²·s @ 75 Pa (0.004 cfm/ft² @ 1.57 psf)	Pass*
Air Leakage of Air Barrier Assembly	ASTM E2357	< 0.2 L/s·m² at 75 Pa (< 0.04 cfm/ft² at 1.57 psf)	Pass**
Flame Propagation	NFPA 285	Comply with acceptance criteria of NFPA 285	Pass
%Solids (by volume)	Calculation	N/A	50%
Color	N/A	N/A	Grey/Blue
VOC Compliance	Complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for waterproofing sealer, VOC < 100 g/L		
Building Code Compliance	Meets requirements of 2015 IBC, IRC, and IECC as an air barrier, Class I vapor retarder, and water-resistive barrier. Meets requirements of NFPA 285 for use on Types I-IV construction for buildings of any height. Refer to Jensen Hughes analysis: 1JJB05184.001		
Green Building Standards and Code Conformance	Meets CALGreen, Title 24, requirements for air barriers and WRBs Meets IgCC requirements for air barriers Meets ICC National Green Building Standard requirements for WRBs Meets ASHRAE 189.1 requirements for air barriers		

Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests.
* Based on tests performed with thin film coating
** Based on tests performed with joint treatment only applied no air barrier top coat

Features	Benefits
1 Waterproof material	Minimizes risk of water damage
2 Vapor barrier	Effectively retards water vapor diffusion in walls
3 Structural and durable	Rigid and stable under air pressure loads; does not tear or blow off the wall with wind
4 Easy to apply with airless spray equipment	Easy, fast installation; does not require specialized spray equipment
5 Water-based and low VOC	Safe, VOC compliant, easy clean-up, improved IAQ
6 Compatible with other StoGuard Products	Reliability and peace of mind

StoGuard® VaporSeal™ is a fluid-applied air barrier, vapor barrier, and water-resistive barrier (WRB). It is used over prepared vertical above grade concrete, concrete masonry, brick masonry, and wood or glass mat gypsum sheathing walls. It can be used behind multiple claddings such as metal panels, stone and brick veneer with a cavity, stucco or adhered masonry veneer over metal lath, and wood, vinyl or fiber cement sidings.

Coverage

Approximately 70-90 ft² (6.5-8.4 m²) per pail when applied at 80 wet mils (40 mils DFT)

Coverage may vary depending on substrate conditions, application technique, waste factor, and final film thickness. CMU substrates will generally be on the lower end of the coverage range.

Construct a mock-up under actual conditions of use to verify proper surface preparation, number of coats required, coverage, and method of application, for approval by the appropriate authority.

Packaging

5 gallon (19 L) pail.

Shelf Life

18 months, if properly stored and sealed.

Storage

Store in a cool, dry area.

Protect from extreme heat [90°F (32°C)], freezing, and direct sunlight.

StoGuard® VaporSeal™

Surface Preparation

Surfaces must be fully cured, structurally sound, clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, efflorescence, form oil, and other foreign matter. Sheathing must be Exterior Grade or Exposure 1 wood-based sheathing or building code compliant glass mat gypsum sheathing. Sheathing must be installed in compliance with the building code and manufacturer's recommendations. Treat sheathing joints, inside and outside corners, rough openings, and transition details with appropriate

StoGuard components. Refer to Sto Details. Pre-treat surface defects such as knots in wood-based sheathing, vacant fastener holes, and minor cracks (up to 1/16 inch [1.6 mm] wide) in concrete and CMU with StoGuard VaporSeal. If cracks are structural consult an engineer. Note: for fast drying in cold or damp weather use Sto Rapid products for detailing and pre-treatments. Apply StoGuard VaporSeal over the Rapid products within 48 hours of their drying.

Mixing

Mix to a uniform consistency with an electric drill and clean, rust-free paddle.

Do not thin or dilute with water.

Application

Provide adequate ventilation and ensure surface and ambient temperatures are between 40°F and 100°F (4°C and 38°C) during application and drying period. Apply only to fully cured, structurally sound, clean, dry, properly prepared, frost-free surfaces.

Spray Application

Apply to the prepared substrate using airless spray equipment that pumps a minimum of 1-1/4 to 1-1/2 gallons (4.7-5.7 L) per minute. Suggested tip size is .025. Pressure and tip size may vary depending on equipment used. Spray uniformly at a thickness of approximately 40 wet mils, allow material to set slightly (up to 1 hour depending on weather and substrate conditions), and double back with a second pass to achieve a total of 80 wet mils (40 DFT). Alternatively, apply in two coats, allowing the first coat to fully dry. CMU surfaces may require back rolling of the first pass with a ¾ or 1 inch (19 or 25 mm) synthetic nap roller depending on porosity, joint profile, trueness of the wall surface, and other variables that may exist. Avoid excess build-up of wet material to prevent sag, especially on non-porous surfaces and during cold or damp weather.

Roller Application

The product may be applied by roller or brush at detail areas such as treatment of sheathing joints and rough openings with StoGuard Fabric. Use a ¾ inch (19 mm) synthetic nap roller and apply liberally to embed the fabric.

Drying

Product dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Final dry time varies depending on temperature/humidity, thickness of application, and surface conditions. Cold weather and/or damp conditions prolong drying and may require adjustments in application method to prevent sag. Protect from rain and freezing until completely dry. If temporary heaters are used ventilate to the exterior to prevent water vapor from accumulating on or within the wall assembly components.

Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Limitations

- Apply only when surface and ambient temperatures are between 40°F and 100°F (4°C and 38°C) during application and drying period. Do not apply if the surface temperature is less than 5°F (2.8°C) above the ambient dew point temperature.
- Do not use below grade or on surfaces subject to in-service water immersion
- Allowable weather exposure before protection with cladding: 90 days
- Allowable in-service temperature range: -40°F to 180°F (-40°C to 82°C)
- Fire-retardant treated or pressure treated plywood substrates must be dry with the surface free of salts or other chemical treatments migrating from within the wood. Test adhesion to be sure of desired results.
- Use a slip sheet (typically one layer of building paper or Sto DrainScreen™ and building paper) between StoGuard VaporSeal and stucco or adhered masonry veneer over metal lath. Refer to Sto Details.
- Interior applications: a 15 minute thermal barrier may be required over StoGuard VaporSeal. Consult local codes.

Health And Safety

Health Precautions

WARNING!

May cause eye and/or skin irritation.

Safety Precautions

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

First Aid: Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Store locked up.

Spills: Dry stage: Sweep and dispose of in proper receptacle. Wet stage: Add absorbent, sweep up and discard. Keep out of sewers and other public water systems.

Disposal: Dispose of in accordance with local, state or federal regulations.

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LIMITED WARRANTY

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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.