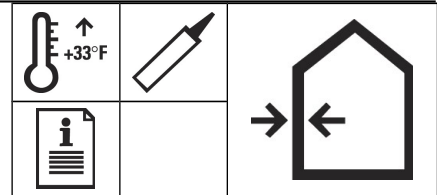


# StoGuard® RapidSeal™

80270 StoGuard® RapidSeal™



## Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
<b>Water Penetration Resistance</b>	AATCC-127 (water column)	Resist 21.6" (55 cm) water for 5 hours	No water penetration
<b>Adhesion (psi)</b>	ASTM D 4541	> 50 psi	> 100 psi (689 kPa)
<b>Elongation</b>	ASTM D 412	N/A	420%
<b>Tensile Strength</b>	ASTM D 412	N/A	170 psi (1172 kPa)
<b>Water Vapor Permeability</b>	ASTM E 96 wet cup method	N/A	21.0 perms (1205 ng/Pa·s·m <sup>2</sup> )
<b>Surface Burning</b>	ASTM E 84	Flame Spread: < 25 Smoke Developed: < 450	Flame Spread: 0 Smoke Developed: 15 NFPA and ICC Class A Building Material
<b>% Solids by Volume</b>	Calculation	N/A	99%
<b>VOC Content</b>	Calculation	Compliant with EPA and South Coast AQMD Requirements	Compliant, 27 g/L

*StoGuard® RapidSeal™ is a one-component air barrier and waterproof material used to protect rough openings and for transition detailing in above grade wall construction. Rapid drying time will usually allow for same day installation of windows or top coating with other wall assembly components. StoGuard® RapidSeal™ is compatible with most common building materials, including concrete, concrete masonry, brick, gypsum sheathing, wood, galvanized metal and cement based sheathings.*

## Features Benefits

<b>1 Fast Cure</b>	Allows work to proceed quickly without costly delays and interruptions to work schedule
<b>2 Eliminates mesh, fabric and tapes at rough openings (when used with StoGuard membranes)</b>	Simplifies and speeds application
<b>3 Cures in wet weather and on damp substrates</b>	Avoids costly wet weather work shut downs or wash-offs; adheres to damp substrates without blistering or increase in drying time.
<b>4 Installs down to near freezing temperatures (33°F [0.56°C])</b>	Extends construction period deeper into cold weather season
<b>5 Chemically compatible with urethane and silicone sealants and coatings</b>	Facilitates continuity with other air barrier, moisture barrier or waterproofing components; minimizes construction sequencing issues. Compatible with Dow 790 and Dow 795 (Always perform tests to verify compatibility and adhesion)
<b>6 Easy to install</b>	Does not require highly skilled applicator work force – reduces labor costs
<b>7 High build, tough, resilient surface</b>	Prevents damage during construction and costly repairs
<b>8 Excellent Elongation</b>	Bridges cracks and seams in construction without tearing or compromise in performance.
<b>9 Can be overcoated</b>	Compatible with other Sto liquid applied air and moisture barrier components; facilitates continuity at transition areas in construction
<b>10 Low VOC and South Coast AQMD Compliant</b>	Compliant with all national, state and local VOC regulatory requirements; can be used throughout the US and Canada. Qualifies for LEED credits.
<b>11 Water Vapor Permeable</b>	Resists blistering and trapped moisture in construction
<b>12 Liquid Application</b>	Easy to create an airtight seal around complex geometrical shapes.

### Coverage

Approximately 29 lineal feet (8.8 m) of rough opening per cartridge or 20 lineal feet (6.1 m) per sausage when applied at 12 wet mils (0.3 mm) on 2x4 framing, 20 lineal feet (6.1 m) per cartridge or 14 lineal feet (4.3 m) per sausage on 2x6 framing.

*Coverage will vary depending on application technique, depth of rough opening, and surface conditions. Rough surfaces will reduce coverage.*

### Packaging

29 oz. (0.86 L) cartridges  
12 cartridges per case  
20 oz. (567 G) 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.

### Model Building Code Report:

ICC-ES Report #: ESR-1233

## 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 pressure-treated and fire-retardant treated plywood. Surfaces must not have standing water on them.

## StoGuard® RapidSeal™

### Mixing

Not required. Ready to use.

### Application

Apply minimum 12 wet mils (0.3 mm). Material is opaque at 12 mils and translucent at less than 12 mils. Use opacity as a quality assurance measure for adequate thickness.

#### Rough Openings

Use a caulking gun for application and form a generous bead of material along the surface to be covered. Use a 6 inch (152 mm) wide plastic drywall knife to spread the material. For rough openings coat the entire rough opening surface and overlap onto sheathing 4 to 6 inches (100 – 152 mm) all the way around.

#### Sheathing Joints

Apply minimum 2 inch (51mm) wide StoGuard Mesh along sheathing joints, centered along the joint. Apply minimum 4 inch (102 mm) wide StoGuard Mesh at inside and outside corners, center folded at the corner. Apply StoGuard RapidSeal onto StoGuard Mesh and spread to a uniform thickness, minimum 12 mils, covering the StoGuard Mesh. Mesh pattern may remain visible, but mesh color must not show. In the event of gaps between framing members apply StoGuard RapidSeal liberally into the gap, then spread material along framing so that no visible breaks or gaps exist in the completed application. For large gaps (> 1/4 inch [6 mm]) fill the gap with spray foam, shave flush with the surface, and apply StoGuard RapidSeal in the normal manner.

#### Transitions

For transitions to flashing the flashing leg must be flat against the wall surface. If necessary fill voids between the sheathing and flashing leg with material and tool. Then

apply a generous bead of material to the flashing leg and spread from the flashing leg onto the sheathing surface approximately 2 inches (51 mm). Achieve a void and pinhole free transition. In cases where excessively large gaps exist between the flashing leg and the wall surface alternative transition detailing may be used (refer to Sto Details) or other steps may be necessary to correct the deficient condition.

StoGuard RapidSeal does not require top coating except under the following conditions:

- When a vapor barrier is required top coat with StoGuard VaporSeal to form a vapor barrier.
- When installing adhesively applied StoTherm® or StoTherm® ci systems top coat with Sto Gold Coat.
- When the allowable 30 day exposure period has to be extended top coat with the appropriate Sto coating.

#### Curing and Drying

Product is moisture cure. Tack free time is 30 minutes and drying time is within 4 hours under normal (room temperature) conditions and relative humidity. 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.

### Limitations

- Use only when surface and ambient temperatures are above 33°F (0.56°C) during application and drying period.
- Do not use when temperature is above 100°F (37.7°C)
- Do not use on surfaces with standing water.
- When top coating with StoGuard or other Sto coatings apply top coat 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

#### Health Precautions

**DANGER!** 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 for further health and safety information. Safety Data Sheet (SDS) is available at [www.stocorp.com](http://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.**  
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](http://www.stocorp.com)

**S155-80270**  
Revision Number: A3.0  
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](http://www.stocorp.com).