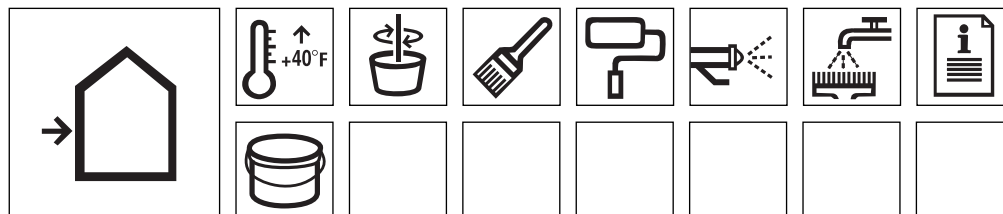


StoGuard™ VaporSeal™

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Technical Data

TEST	METHOD	CRITERIA	RESULTS
Water Vapor Permeance	ASTM E-96 (Dry Cup)	< 0.1 perms (< 5.7 ng/(Pa·s·m ²))	0.063 US perms (3.6 ng/Pa·s·m ²)
Nail Sealability	ASTM D-1970		Pass
Air Barrier	ASTM E-2178	< 0.02 L/m ² ·s (< 0.004 cfm/ft ²)	Pass
Elongation	ASTM D-412		240% at 1 day 210% at 7 days
Aging/Water Resistance	ICC ES AC 212/ AATCC 127	Resist 21.6 inches (55 cm) water for 5 hours before and after aging	Pass
Adhesion to Substrates ¹	ASTM D-4541 (ASTM C-297 modified)	> 15 psi	Exterior Gypsum: > 15 psi Dens-Glass Gold: > 15 psi OSB: > 50 psi Plywood: >50 psi
Flame Spread	ASTM E-84	Flame Spread: < 25 Smoke Developed: < 450	Pass
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings. VOC less than 100 g/L.		
% Solids (by volume)	By measurement		62.5%

Notes: 1. Adhesion testing performed after 7-day coating cure. All breaks were cohesive within the substrate.

StoGuard VaporSeal is a ready-mixed, flexible waterproof coating which can be used on gypsum, cement or wood based sheathing substrates. It is used on vertical above grade walls behind various claddings including EIFS, stucco over metal lath/building paper, vinyl, cement board, and others.

Coverage

All coverages per single coat, per 5 gallon (19 L) pail.

Dens-Glass Gold: 400-450 ft² (42-56 m²).
Exterior Gypsum: 650-750 ft² (60-70 m²).
Plywood: 650-700 ft² (60-65 m²).
OSB: 525-650 ft² (49-60 m²).
CMU: 250-300 ft² (37-42 m²).

Packaging

5 gallon (19 L) pail.

Shelf Life

12 months, if properly stored and sealed.

Storage

Once opened, keep containers covered to protect from skinning. If material skins, remove skinned material from container.

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

Features

Benefits

1 Waterproof coating for sheathing	Minimizes risk of water damage to sheathing and associated repair or replacement costs
2 Vapor Barrier	Effectively stops water vapor movement
3 Air Tight	Exceeds CCMC requirements for air barriers and complies with Massachusetts State Energy Code
4 Structural	No air moisture intrusion between the sheathing and StoGuard; rigid and stable under air pressure loads; does not tear or blow off the wall with wind
5 Spray applied via airless spray equipment	Easy, fast installation; does not require specialized spray equipment
6 Low VOC	Water-based so more environmentally friendly

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Mixing

Mix with a clean, rust-free electric drill and paddle to a uniform consistency. Do not thin, or dilute with water.

Application

Apply only to sound, clean, dry, properly prepared, frost-free surfaces. Sheathing joints, inside and outside corners and rough openings must be treated with StoGuard joint and rough opening treatment.

Over Exterior Gypsum Sheathing, Dense Glass Gold, Exterior Plywood or Oriented Strand board (OSB): Apply StoGuard VaporSeal to the prepared substrate using spray equipment such as Sto's M-8 Spray Pump, or Graco airless spray equipment at 2500+ psi through a 25-31 mil tip at 30 wet mils or 20 dry mils.

If using a roller, it will be necessary to apply 2 coats at 15 wet mils each coat and a minimum of 20 dry mils is recommended. Use 1/2 inch (13 mm) nap roller for plywood, gypsum sheathing, and fiber reinforced gypsum sheathing. Use 3/4 inch (19 mm) nap roller for glass mat faced gypsum sheathing.

Roller-applied over CMU: Apply StoGuard VaporSeal uniformly with a 3/4 inch (19 mm) nap roller and allow to dry. Apply a second uniform coat of StoGuard VaporSeal to achieve a void and pinhole free surface. Depending on the condition of the surface a minimum of 15 wet mils up to a maximum of 30 wet mils per coat is required and a minimum of 20 dry mils is recommended. Apply additional coats if needed to achieve a VOID AND PINHOLE FREE surface.

IMPORTANT NOTE: StoGuard VaporSeal functions as a waterproofing/air barrier on normal weight concrete masonry unit wall construction with flush (struck flush with the surface of the CMU) or concave joints when a minimum of two liberal coats are applied. Additional coats may be necessary depending on the condition of the CMU wall sur-

face, CMU porosity, joint profile, and other variables that may exist. For "rough" CMU wall surfaces, skim coat the entire surface with one of Sto's cementitious levelers (Sto Leveler, Sto BTS-Plus, Sto BTS-Silo, or Sto Primer-Adhesive-B) before application of StoGuard VaporSeal. A VOID AND PINHOLE FREE SURFACE must be achieved for StoGuard VaporSeal to properly function as a waterproofing/air barrier on CMU wall surfaces.

Material Storage

Keep containers covered to protect from skinning. If skin forms, remove the skinned material from container; remaining material is unaffected by skinned material.

Curing/Drying

StoGuard VaporSeal is dry to touch and can be overcoated within 2-4 hours under normal conditions (70°F [21°C], 50% RH). Wait at least 24 hours before adhesive attachment of Sto insulation board. In the event of cool or damp weather conditions several days of drying may be necessary before adhesive attachment of Sto Insulation Board. Several subsequent days of adhesive drying may then be necessary before rasping of insulation board. Exercise caution and verify adequacy of attachment before rasping.

Final drying varies depending on temperature/humidity and surface conditions.

Protect from rain and freezing until completely dry.

Clean Up

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

damp conditions retard drying and may require extended periods of protection against rain or freezing.

- StoGuard VaporSeal can be left exposed to weather for up to 60 days. Install cladding over StoGuard VaporSeal within 60 days of installation.

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

For complete information refer to Sto Guard Air Barrier and Moisture Control Handbook.

Health And Safety

Health Precautions

Products are water-based. As with any chemical construction product, exercise care when handling.

Safety Precautions

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

First Aid

SKIN CONTACT: Wash thoroughly with soap and water.

EYE CONTACT: Flush immediately with water for 10-15 minutes and contact a physician.

RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician.

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

Spills: Collect with a suitable absorbent material such as cotton rags.

Disposal: Dispose in accordance with local, state and 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 Material Safety Data Sheet for further health and safety information.

LIMITED WARRANTY

THESE PRODUCTS ARE SUBJECT TO A WRITTEN LIMITED WARRANTY WHICH CAN BE OBTAINED FREE OF CHARGE FROM: Sto Corp., Box 44609, Atlanta, GA 30336-5609; Tel. 404-346-3666; Fax 404-346-3119.

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.

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Limitations

- StoGuard VaporSeal is a water based product. Apply only when surface and ambient temperatures are 40°F (4°C) and rising. Maintain temperatures above 40°F (4°C) during drying period for at least 24 hours.
- Provide adequate ventilation during application and drying period. Ventilate temporary heaters to the exterior to prevent water vapor from accumulating on or within the wall assembly materials.
- StoGuard VaporSeal dries within 4 hours under normal (70°F [21°C]) drying conditions. Cool,