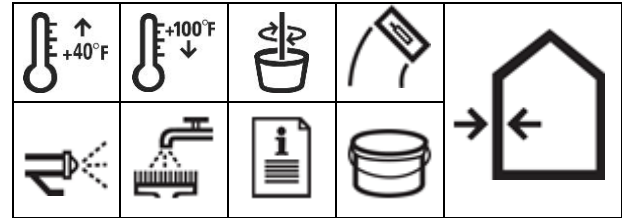


## PRODUCT BULLETIN

# Sto Gold Fill®

Product Number: 80266



### PRODUCT DESCRIPTION

Sto Gold Fill is a ready-mixed, flexible, trowel or spray-applied air barrier for use over prepared vertical above-grade concrete, concrete masonry, brick masonry, wood sheathing, glass mat gypsum sheathing, and cementitious sheathing substrates, as part of a StoGuard® air and water-resistive barrier system. It is used with StoGuard Mesh® to seal joints and seams and to protect rough openings in Sto proprietary wall systems and beneath multiple cladding types.

FEATURES	BENEFITS
Air Barrier	Reduces risk of condensation caused by air leaks through the wall construction; reduces energy costs by reducing heating/cooling loads
Vapor permeable	Minimizes risk of condensation in walls
Structural and durable	Rigid and stable under air pressure loads; does not tear or blow off the wall with wind
Seamless	No tears, holes, or mis-lapped joints that can compromise performance in service
Water-based and low VOC	Safe, non-toxic, VOC compliant, easy clean-up

**Coverage (per pail):** 175-250 linear feet (53-76m) of sheathing joints and rough openings.

Coverage may vary depending on substrate, application technique, waste factor, and other variables that may exist. 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, coverage, and method of application for approval by the appropriate authority.

**Packaging:** 5 gallon (19L) pail

**Color:** Yellow

**Shelf Life:** 18 months in original, unopened, properly stored container.

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

### SURFACE PREPARATION

Sto Proprietary Wall Systems: StoTherm® ci, StoVentec®, StoPowerwall®, StoQuik® Silver, StoPanel®, and StoLite® systems. Refer to applicable Sto Specification.

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, glass mat gypsum sheathing in compliance with ASTM C1177, or cementitious sheathing in compliance with ASTM C1325 Type A. 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 Sto Gold Fill applied over StoGuard Mesh. Refer to Sto Details. Pre-treat 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 Sto Gold Fill. If cracks are structural consult an engineer.

### MIXING

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

### APPLICATION

Apply only to sound and clean, dry, properly prepared, frost-free surfaces.

#### Installation over Sheathing

Place minimum 4 inch (101 mm) wide StoGuard Mesh centered over sheathing joints and minimum 9 inch (152 mm) wide StoGuard Mesh centered and folded around inside and outside corners. Apply Sto Gold Fill over the mesh to a uniform thickness of 1/16 inch (1.6mm) and trowel smooth to completely cover the mesh. Protect from rain and freezing until dry. Spot vacant fastener holes or over-driven fasteners, knots, or other voids in sheathing surfaces with Sto Gold Fill.

#### Installation over Concrete or Concrete Masonry

Reinforce static cracks up to 1/8 inch wide with StoGuard Mesh centered over the crack. Apply Sto Gold Fill to a uniform thickness of 1/16 inch (1.6mm) and trowel smooth.

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### APPLICATION (continued)

IMPORTANT: top coat all installations with Sto Gold Coat or other Sto air and water-resistive barrier coating. Refer to StoGuard Detail Booklets for rough opening protection, penetrations, and other installation details.

#### Clean Up

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

#### 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 delay drying. Protect from rain, high humidity, and temperatures less than 40°F (4°C) until completely dry. IMPORTANT: IF TEMPORARY HEATERS ARE USED, VENTILATE TO THE EXTERIOR TO PREVENT WATER VAPOR FROM CONDENSING ON OR WITHIN THE WALL ASSEMBLY COMPONENTS.

### LIMITATIONS

- Ambient and surface temperatures must be between 40° and 100°F (4° and 38°C) during application and drying period.
- Do not apply if the surface temperature is less than 4°F (2.8°C) above the ambient dew point temperature.
- Do not use on damp surfaces, below grade or on surfaces subject to in-service water immersion.
- Allowable weather exposure: 90 days.
- Not recommended for spanning sheathing joints or holes in excess of 1/8" (3 mm) wide.
- Must be top coated with Sto Gold Coat or other Sto air and water-resistive barrier coating
- 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.

### LIMITATIONS (continued)

- Exercise care when mechanically attaching wall assembly components through Sto Gold Fill so that fasteners go into (not between) framing supports. Do not use powder actuated or other fastening devices that can damage the substrate. Seal all penetrations through the wall to make them watertight. Test assemblies when necessary to make them watertight.
- Use a slip sheet, typically one layer of building paper (or Sto DrainScreen® and building paper), between Sto Gold Coat and stucco or adhered masonry veneer over metal lath.

### 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:** Product is water-based. As with any chemical construction product, exercise care when handling.

**WARNING:** Causes eye and skin irritation.

**Precautionary Statement:** Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**FIRST AID MEASURES:** 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:** 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) on [www.stocorp.com](http://www.stocorp.com) for further health and safety information.

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### TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULT
Air Leakage Resistance	ASTM E2178	< 0.02 L/s•m <sup>2</sup> •s @ 75 Pa (<0.004 cfm/ft <sup>2</sup> @ 1.57 psf)	Pass
Air Leakage of Air Barrier Assembly	ASTM E2357	< 0.2 L/s•m <sup>2</sup> @ 75 Pa (< 0.04 cfm/ft <sup>2</sup> @ 1.57 psf)	Pass
Accelerated Weathering/ Hydro-static Pressure <sup>1</sup>	ICC-ES AC212	No water penetration on the plane of the exterior facing side of the substrate after weathering and 5 hours hydrostatic pressure at 21.6 in (55cm)	No water penetration
Adhesion to Substrates	ICC-ES AC24 / AC212	> 15 psi (103 kPa)	> 15 psi (105 kPa) over glass mat gypsum sheathing > 50 psi (345 kPa) over OSB & plywood sheathing
Freeze-Thaw Resistance <sup>1</sup>	ICC-ES AC24 / AC212	No deleterious effects after 10 cycles when viewed under 5X magnification	No deleterious effects <sup>2</sup>
Surface Burning	ASTM E84	Flame Spread: ≤ 25 Smoke Developed: ≤ 450	Flame Spread: 5 Smoke Developed: 10
Fire Propagation <sup>1</sup>	NFPA 285	Comply with acceptance criteria for vertical and lateral flame propagation and thermocouple temperature limits	Complies in multiple wall assemblies (refer to ICC-ESR 1233)
Structural, Racking, and Restrained Environmental Conditioning <sup>1</sup>	ICC-ES AC212	No cracking in the field of the panel, at substrate joints and no visible water penetration after racking and environmental cycling (water spray with applied pressure at 2.86 psf [137 Pa] for 15 minutes)	No cracking or water penetration (water spray with applied pressure at 2.86 psf [137 Pa] for 15 minutes and repeated at 6.24 psf [299 Pa] for 2-hours)
Water Resistance <sup>1</sup>	ASTM D2247	No deleterious effects after 14-day water exposure	No deleterious effects <sup>2</sup>
Water Vapor Permeance	ASTM E96 Method B	Measure	8.40 perms (480 ng/Pa•s•m <sup>2</sup> )
Building Code Compliance (refer to ICC ESR-1233)	Class A Building Material		
	Meets requirements for use on noncombustible construction as a component of: <ul style="list-style-type: none"> <li>• StoTherm® ci, StoVentec®, StoPowerwall®, StoQuik® Silver, StoPanel®, and StoLite®</li> <li>• Code compliant concrete, concrete masonry, and portland cement stucco wall assemblies</li> </ul>		
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for Building Envelope Coatings. VOC less than 50 g/L.		

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

1. Test specimens top coated with Sto Gold Coat over Sto Gold Fill
2. No deleterious effects: no cracking, checking, crazing, erosion, or other characteristics that might affect performance as a wall cladding. No delamination.

<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>	Revision Number: 008 Date: 04/2024	<p style="text-align: center;"><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. <b>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.</b> 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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