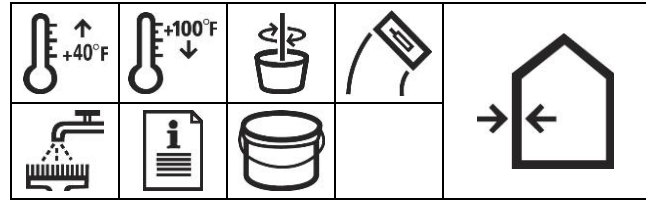


Sto Gold Coat[®] TA

81398 Sto Gold Coat TA
Fluid-applied vapor permeable air and moisture barrier



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Water Vapor Permeance	ASTM E 96 (Wet Cup)	Measure	> 10 US perms (575 ng/Pa·s·m ²)
Air Leakage Resistance¹	ASTM E 2178	< 0.02 L/m ² ·s @ 75 Pa (<0.004 cfm/ft ² @ 1.57 psf)	Pass
Water Penetration Resistance	AATCC 127 h(water column)	Resist 21.6 inches (55 cm) water for 5 hours	No water penetration
Adhesion to Substrates	ASTM D-4541 (ASTM C-297 modified)	> 15 psi (103 kPa)	Glass Mat Gypsum: > 15 psi (103 kPa) OSB, Plywood, CMU: > 50 psi (344 kPa)
Flame Spread¹	ASTM E-84	Flame Spread: < 25 Smoke Developed: < 450	Flame Spread: < 25 Smoke Developed: < 450
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 is < 100 g/L		

1. Note: results based on correlation with independent testing of Sto Gold Coat[®]

Features	Benefits
1 Waterproof	Minimizes risk of water damage and associated repair or replacement costs
2 Vapor Permeable	Minimizes risk of condensation in wall from water vapour diffusion
3 Structural	No air leakage between the sheathing and StoGuard; rigid and stable under air pressure loads; does not tear or blow off the wall with wind
4 Seamless	No tears, holes, or mis-lapped joints that can compromise performance in service
5 Durable	Does not tear or lose its effectiveness with exposure to weather during construction or while in service
6 Low VOC	Safe for interior and exterior use.

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

Surface Preparation
Surfaces must be clean, dry, and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter. Damaged sheathing must be removed and replaced. Avoid application over irregular surfaces. Substrate to be coated must be continuous without joints, holes, etc. exceeding 1/8" (3 mm) in size. Sheathing must be properly installed as required by applicable building codes or sheathing manufacturer.

Application
Apply only to sound and clean, dry, properly prepared, frost-free surfaces with a stainless steel trowel.

Glass Mat Gypsum, OSB Exposure 1, and Exterior Grade Plywood: Treat joints with StoGuard Mesh centered over the joints and coat the mesh evenly with Sto Gold coat TA. Alternatively use any other StoGuard[®] joint treatment. Protect rough openings with Sto Gold Coat TA applied over StoGuard Mesh. Refer to Sto Detail 10.23a. Alternatively use any other StoGuard[®] rough opening protection. Spot surface defects such as overdriven fasteners, knots or other voids in sheathing surface with Sto Gold Coat TA prior to full application. When dry coat the entire wall surface, INCLUDING JOINT TREATMENTS AND ROUGH OPENING PROTECTION, with an even coat of Sto Gold Coat TA at 26-40 WFT (20-30 DFT) or Sto Gold Coat at 10-12 WFT (5-7 DFT) to produce a VOID AND PINHOLE FREE SURFACE. Wood-based sheathing may require touch-up to completely cover the surface.

Sto Gold Coat TA is a ready-mixed flexible trowel applied air and moisture barrier for use in StoTherm[®] ci Systems. It is applied directly to vertical above grade wall sheathing, concrete, and concrete masonry.

Coverage (per pail)

Field of wall (1 coat except for CMU):

Glass-Mat Gypsum Sheathing: 350-410 ft² (32-38 m²)

Plywood: 330-370 ft² (30-34 m²)

OSB: 220-300 ft² (20-28 m²)

CMU (2 coats): 120-200 ft² (11-18 m²)

With StoGuard Mesh (2 coats over all mesh surfaces):

Rough Opening Protection (2x4 framing): 110-130 lineal feet (33-40 m)

Sheathing Joint (not including second coat applied during field of wall application): 440-460 lineal feet (134-140 m)

Coverage will vary depending on substrate, job site conditions, application technique, waste factor, and final film thickness. Consult Sto Tech Hotline No. 0614-BSc for coverage over glass mat gypsum sheathing substrates.

Packaging
5 gallon (19 L) pail.

Shelf Life
12 months, if properly stored and sealed.

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

Sto Gold Coat TA

Application cont.

Concrete Masonry: Repair cracks up to 1/4 inch (6 mm) wide by filling with Sto RapidGuard. Rake the crack with a sharp tool to remove loose or friable material, and blow clean with oil-free compressed air.

Apply Sto RapidGuard with knife or spatula over the crack and smoothen. For wider cracks or moving cracks consult a structural engineer. Do not use Sto RapidGuard to repair moving cracks or cracks wider than 1/4" (6 mm). Protect crack repair materials from rain and freezing until dry.

IMPORTANT: Sto Gold Coat TA functions as an air and moisture 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 surface, 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, Sto BTS[®] Xtra or Sto Primer/Adhesive-B) before application of

Sto Gold Coat TA. Apply Sto Gold TA at 26-40 WFT (20-30 DFT). A VOID AND PINHOLE FREE SURFACE must be achieved for Sto Gold Coat TA to properly function as an air barrier and moisture.

Concrete: Repair cracks as described for concrete masonry and allow crack repair to dry. Apply a uniform coat of Sto Gold Coat TA at 26-40 WFT (20-30 DFT) to produce a VOID AND PINHOLE FREE SURFACE.

Curing/Drying

Sto Gold Coat TA is dry to touch and can be over coated within 2-4 hours under normal conditions (70°F [21°C], 50% RH). Wait 24 hours minimum before adhesive attachment of Sto insulation board. Final drying varies depending on temperature/ humidity, thickness of application, and surface conditions. Hot, dry conditions accelerate drying. Cool, damp conditions retard drying and may require extended periods of protection. 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.

Limitations

- Sto Gold Coat TA 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.
- Do not use on damp surfaces, below grade, or on surfaces subject to water immersion.
- Fire-retardant treated or pressure treated plywood substrates must be dry and free of all bond-inhibiting materials.
- Not recommended for spanning sheathing joints or holes in excess of 1/8" (3 mm). Joints must be properly reinforced with StoGuard joint treatment.
- 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.
- Ensure the Sto Gold Coat TA surface is clean, dry, and free of surface contamination. Install StoTherm ci insulation board within 30 days of the application of Sto Gold Coat TA, or clean the surface and recoat with Sto Gold Coat TA.

Health And Safety

Health Precautions

Product is 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 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 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.