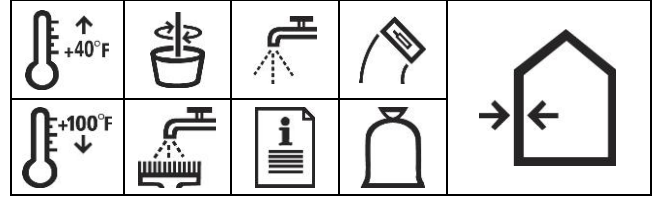


Sto ExtraSeal®

81709 ExtraSeal
Air and Moisture Barrier Component beneath
Direct-Applied Stucco



Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Adhesion	ASTM D 4541	CMU: ≥ 50 psi (345 kPa)	CMU: >100 psi (689 kPa)
Air Leakage Resistance	ASTM E2178	<0.004 cfm/ft ² @ 1.57 psf (< 0.02 L/m ² ·s @ 75 Pa)	Complies
Water Penetration Resistance	ASTM E514	Measure water penetration through CMU substrate	No water penetration
Surface Burning*	ASTM E84	Flame Spread: ≤ 25 Smoke developed: ≤ 450	Flame spread: < 25 Smoke developed: <75 Class A Building Material
VOC	Calculated	Meets EPA ¹ and SCAQMD ¹ emission standards for Building Envelope Coating, VOC <50 g/L	

¹ EPA=Environmental Protection Agency, SCAQMD=South Coast Air Quality Management District

* Results based on comparable cementitious Sto products with E84 testing

Features	Benefits
1 Vapor Permeable	Minimizes risk of water entrapment in walls
2 Resists Water Penetration	Minimizes risk of water damage to substrate and water leakage to the interior.
3 Polymer-modified cement-based product	Excellent adhesion, increased durability, compatible with high pH substrates
4 Easy spread by trowel	Applicator friendly
5 Zero VOC	Can qualify for credits in sustainable design programs

Preparation

Concrete and masonry surfaces: Surfaces must be structurally sound, clean, absorbent, slightly pitted or profiled, and free of frost, damage, and all bond-inhibiting materials, including dirt, dust, efflorescence, paint or other coatings, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired. Thoroughly dampen CMU and absorbent concrete surfaces in hot, dry weather to reduce surface absorption just prior to installation of Sto ExtraSeal.

Mixing

Use 5-6 qts. (4.7-5.7 L) of water per 50 lb. (23kg) bag. Mix manually by adding one bag of Sto ExtraSeal to clean, potable water in a clean mixing pail. Mix with a clean, rust free, electric drill and paddle. Allow to set approximately 5 minutes, adjust mix if necessary, by adding up to 12 fl. oz (0.35 L) of water to a bag, and remix to a uniform consistency. Avoid re-tempering after mixing of product. Do not exceed maximum amount of water in mix ratio. Pot life is approximately 45 minutes, depending on conditions.

Sto ExtraSeal is a portland cement-based air and moisture barrier component for use over prepared concrete and concrete masonry (CMU) walls beneath StoPowerwall and other Sto listed ASTM C926 stucco brown coats. It provides substrate water penetration resistance and air leakage resistance.

Coverage
(per 50 lb [~23 kg] bag)

As a skim coat:
130-150 ft² (12.1 – 13.9m²) at nominal 1/8 inch (3mm) thickness

As a scratch coat:
90-100 ft² (8.4 – 9.3m²) at nominal ¼ inch (6mm) thickness (over Sto ExtraSeal skim coat)

Coverages are approximate and will vary depending on mix ratio with water, application technique and surface conditions.

Packaging
50 lbs. (~23 kg) bag.

Shelf Life
12 months, if properly stored in original unopened packaging.

Storage
Store off the ground in a cool, dry area. Protect from extreme heat, moisture, and direct sunlight.

Sto ExtraSeal®

Application

Apply only to clean, sound, properly prepared, frost-free surfaces. Thoroughly dampen absorbent surfaces - concrete masonry (CMU), and absorbent concrete, especially during hot weather conditions (greater than 85 degrees F [29 degrees C]). **IMPORTANT:** specify CMU with flush joints for best results and to improve material coverage. Refer to Sto Guide Specification 6500 for information on substrates, construction sequencing, field quality assurance and control testing, and other design and installation guidance.

Skim Coat: Apply a uniform coat of Sto ExtraSeal at nominal 1/8 inch (3 mm) thick by trowel BEFORE stucco grounds and accessories are installed to achieve a void and pinhole free surface.

Air Barrier and Flashing Connections: Tie-in adjoining air barrier and flashing components such as window rough opening protection, making sure overlap onto Sto ExtraSeal DOES NOT EXCEED THE DIMENSION OF THE PERFORATED FLANGE on stucco accessories (e.g. casing beads, expansion or control joint accessories), as the Sto ExtraSeal scratch coat may not adhere to other air barrier and flashing components. Refer to Sto 65c.xx Details.

Scratch Coat: Apply nominal 1/4 inch (6 mm) scratch coat of Sto ExtraSeal by trowel minimum 24 hours after the skim coat is dry. Scratch the surface horizontally with a stucco rake tool. Allow to dry minimum 24 hours, longer in cool or damp weather, before application of brown coat.

Limitations

- Use only when surface and ambient temperatures are above 40° F (4° C) and rising during application and drying period.
- Do not use when temperature is above 100° F (37.7° C).
- Rapid loss of moisture during drying period due to direct sun, wind, and high temperatures, can cause cracking and low strength development in Portland cement-based materials. Adjust scheduling of work accordingly to avoid each of these conditions.
- Use of excess water in the mix can cause cracking and low strength development in Portland cement-based materials. Do not exceed recommended amount of mix water.
- Do not use to level irregular or out-of-plane wall surfaces. Use appropriate Sto repair mortar for these purposes.
- Do not use on surfaces with standing or glistening water.
- Do not use on wood substrates.
- Do not use over air barrier, flashing, or rough opening protection materials. Sequence work so these materials lap over the Sto ExtraSeal skim coat, and apply appropriate stucco accessory over the lapped area.
- Not intended for use as rough opening protection
- Not intended for permanent exposure to weather. Protect with Sto coating or textured finish system within 60 days.
- Not for use below grade.
- Not recommended as a base or adhesive for stone, tile, or other adhered masonry veneer or as part of an adhered masonry veneer assembly.

Brown Coat: apply StoPowerwall Stucco or a Sto listed* ASTM C926 compliant portland cement stucco brown coat in accordance with applicable codes and manufacturer's requirements, including moist curing of the stucco brown coat for minimum 4 hours. Limit total thickness, including Sto ExtraSeal skim coat and scratch coat, and stucco brown coat, to 5/8 inches (16 mm) maximum.

*Sto Listed ASTM C926 Stucco Brown Coat Products: Refer to StoPowerwall Stucco addendum at www.stocorp.com

Finish Coat: Allow final stucco application to completely dry before applying finish system (Sto coating system or Sto textured finish system). Check for pH <10 before installing finish system; or wait 28 days for full cure of stucco. Alternatively, install StoPrime Hot minimum 2 days after moist cure of stucco brown coat, then install Sto coating or textured finish after 7-day age of stucco. Refer to applicable Sto product bulletins for Sto primer, coating, and textured finish installation instructions.

Curing, Drying

Sto ExtraSeal does not require moist curing. Sto ExtraSeal dries within 8 hours under normal drying conditions [70°F (21°C), 50% RH]. Cold and/or damp weather will extend drying time. Hot or dry conditions will accelerate drying. Protect from rain and freezing until completely dry. Full cure of product is at 28 days.

Clean Up

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

Health And Safety

DANGER!

Health Precautions

Causes serious eye damage, skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure.

Harmful if inhaled.

Safety Precautions

Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Store locked up.

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.

Spills: Collect in an appropriate container. Uncured material may be removed with water.

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 or by calling 1-800-221-2397 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.