Sto Guide Specification A1000G
StoGuard® Air and Moisture Barrier Membrane – Sto Gold Coat®

Section 07 27 26
Fluid Applied Membrane Air Barriers – Vapor Permeable

This specification is intended for use by the design/construction professional and user of Sto products to assist in developing project specifications for the application of StoGuard Air and Moisture Barrier – Sto Gold Coat, to vertical above grade concrete, concrete masonry, and sheathed wall construction. StoGuard Air and Moisture Barrier – Sto Gold Coat, is designed for use beneath claddings such as brick veneer with a cavity, vinyl, wood, and fiber cement siding. It can also be used behind portland cement stucco with code compliant metal lath and a slip sheet, typically code approved building paper or felt. For EIFS claddings see StoTherm® ci specifications.

StoGuard functions as an air barrier component and secondary water-resistive barrier (WRB) in wall assemblies. The secondary moisture protection provided by StoGuard protects walls against moisture damage from rain during the construction process and in the event of a breach in the wall cladding while in service. It is not intended to correct faulty workmanship such as the absence or improper integration of flashing in the wall assembly, nor is it intended to correct defective components of construction such as windows that leak into the wall assembly. Flashing must always be integrated with the WRB in the wall assembly to direct water to the exterior of the cladding, not into the wall assembly, particularly at potential leak sources such as windows.

An air barrier system minimizes the risk of condensation within the building envelope by eliminating mass transfer of warm moisture laden air into the wall assembly to a cold surface where it can condense. A complete air barrier system consists of individual air barrier components and the connections between them. The air barrier components must be continuous to become an effective air barrier assembly. The design/construction professional must take material compatibility and construction sequencing into account when designing an "air tight" assembly to ensure continuity and long term durability. The effects of air tightness on mechanical ventilation should also be included in the overall project evaluation.

The function of an air barrier should not be confused with that of a vapor retarder. A vapor retarder is placed in the wall to resist differential vapor pressures, whereas the air barrier is designed to resist the structural live loads induced by air pressure difference. Generally a vapor retarder is placed on the warm side of the wall. Specifically, it is placed on the interior side of the insulation in cold climates and on the exterior side of the insulation in warm humid climates to minimize condensation within the wall assembly. A vapor retarder may not be necessary depending on the wall components, the range of temperature/humidity conditions inside and outside, and the mechanical ventilation of the building. A vapor retarder should not be used on the interior side of walls in warm humid climates. If a vapor impermeable air barrier is desired refer to Sto Specification A1000V.

Notes in italics, such as this one, are explanatory and intended to guide the design/construction professional and user in the proper selection and use of materials. This specification should be modified where necessary to accommodate individual project conditions. Verify that section titles in this specification are correct for the Project Specifications. Verify that table headers and spacing are aligned after final edit, including table header repeated at top of table, at any new pages.
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PART 1 GENERAL

1.1 RELATED DOCUMENTS

Retain or delete this article in all sections of the Project Manual

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes materials and installation of fluid applied air and moisture barrier membrane over vertical above grade concrete walls, concrete masonry walls, and wall sheathing.

B. Related Requirements (add/delete, depending on specific project requirements):
   1. Section 03 30 00: Cast-In-Place Concrete
   2. Section 04 22 00: Concrete Unit Masonry
   3. Section 06 16 00: Sheathing
   4. Section 07 25 00: Weather Barriers
   5. Section 07 26 00: Vapor Retarders
   6. Section 07 50 00: Membrane Roofing
   7. Section 07 60 00: Flashing and Sheet Metal
   8. Section 07 90 00: Joint Protection
   9. Section 08 50 00: Windows

1.3 DEFINITIONS

A. Air Barrier Material: A primary element that provides a continuous barrier to the movement of air.

B. Air Barrier Accessory: A transitional component of the air barrier that provides continuity.

C. Air Barrier Auxiliary Material: A transitional component that provides air barrier continuity furnished by a source other than the primary air barrier manufacturer.

D. Air Barrier Assembly: The collection of air barrier materials, accessory and auxiliary materials applied to an opaque wall, including joints and junctions to abutting construction, to control air movement through the wall

1.4 PRE-INSTALLATION MEETINGS

A. Pre-installation Conference
   1. Review air barrier installation requirements and installation details, mock-ups, testing requirements, protection, and sequencing of work.

1.5 REFERENCES

A. Building Code and Material Evaluation Service Standards
ICC ES AC 212  March, 2015, ICC Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing
2012, 2015 IRC  International Residential Code

B. ASTM Standards
C 297-94  Test Method for Tensile Strength of Flat Sandwich Constructions in Flatwise Plane
C 1177-08  Specification for Glass Mat Gypsum Substrate for Use as Sheathing
D 522-93a  Test Methods for Mandrel Bend Test of Attached Organic Coatings
D 1970-00  Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
D 3273-00  Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
D 4541-09  Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
E 84-98  Test Method for Surface Burning Characteristics of Building Materials
E 96-00  Test Method for Water Vapor Transmission of Materials
E 779-10  Standard Test Method for Determining Air Leakeage Rate by Fan Pressurization
E 783-02  Standard Test Method for Field Measurement of Air Leakage Through Installed Exterior Windows and Doors
1E 2178-03  Test Method for Air Permeance of Building Materials

C. APA – The Engineered Wood Association
E30U-2007  Engineered Wood Construction Guide

D. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)
2005 ASHRAE  Handbook Fundamentals
ASHRAE 90.1  2016 Energy Standard for Buildings Except Low-Rise Residential Buildings

E. National Fire Protection Association (NFPA)
1.6 COORDINATION/SCHEDULING

(The work in this section requires close coordination with related sections and trades. Sequence work to provide protection of construction materials from weather deterioration)

A. Coordinate installation of foundation waterproofing, roofing membrane, windows, doors and other wall penetrations to provide a continuous air barrier.

B. Provide protection of rough openings before installing windows, doors, and other penetrations through the wall.

C. Provide sill flashing to direct water to the exterior before windows and doors are installed.

D. Install window and door head flashing immediately after windows and doors are installed.

E. Install diverter flashings wherever water can enter the assembly to direct water to the exterior.

F. Install parapet cap flashing and similar flashing at copings and sills to prevent water entry into the wall assembly.

G. Install cladding within 180 days of air and moisture barrier installation (except in the case of StoTherm ci, install insulation board with adhesive within 30 days of Sto Gold Coat installation).

1.7 SUBMITTALS

A. Manufacturer’s specifications, details and product data.

B. Manufacturer’s standard warranty.

C. Manufacturer’s ICC evaluation report confirming compliance with the IBC, IRC, and IECC as an air barrier and water-resistive barrier.

D. Samples for approval as directed by architect or owner.

E. Shop drawings: substrate joints, cracks, flashing transitions, penetrations, corners, terminations, and tie-ins with adjoining construction, and interfaces with separate materials that form part of the air barrier assembly.

1.8 QUALITY ASSURANCE

A. Manufacturer requirements

   1. Manufacturer of exterior wall air and moisture barrier materials for a minimum of 30 years in North America.
   

B. Contractor requirements

   1. Knowledgeable in the proper use and handling of Sto materials.
2. Employ skilled mechanics who are experienced and knowledgeable in waterproofing and air barrier application, and familiar with the requirements of the specified work.

3. Provide the proper equipment, manpower and supervision on the job-site to install the air barrier assembly in compliance with the project plans & specifications, shop drawings, and Sto’s published specifications and details.

C. Regulatory Compliance

1. Primary air barrier and joint treatment reinforcement materials:
   a. Listed by IBC and recognized for use on all types of construction. Refer to ICC ESR 1233 for limitations.
   b. Comply with VOC requirements of SCAQMD Rule 1113.
   c. Comply with air barrier material requirements of ASHRAE 90.1 – 2010, 2013
   d. Comply with air barrier material requirements of ASHRAE 189.1 – 2009
   e. Comply with 2012 and 2015 IRC requirements for a continuous air barrier
   f. Comply with air barrier material requirements of 2012 and 2015 IBC and IECC.
   g. Evaluated and Listed by ABAA as an air barrier material.

D. Mock-ups

1. Build stand-alone site mock up or sample wall area on as-built construction to incorporate back-up wall construction, typical details covering substrate joints, cracks, flashing transitions, penetrations, corners, terminations, tie-ins with adjoining construction, and interfaces with separate materials that form part of the air barrier assembly.

1.9 PRE-CONSTRUCTION TESTING

A. Conduct testing by qualified test agency or building envelope consultant
   1. Conduct assembly air leakage testing in accordance with ASTM E 783.
   2. Conduct adhesion testing to substrates in accordance with ASTM D 4541.
   3. Conduct wet sealant compatibility testing in accordance with sealant manufacturer’s field quality control test procedure.
   4. Notify design professional minimum 7 days prior to testing.

1.10 DELIVERY, STORAGE AND HANDLING

A. Deliver all materials in their original sealed containers bearing manufacturer’s name and identification of product.

B. Protect coatings (pail products) from freezing temperatures and temperatures in excess of 90 degrees F (32 degrees C). Store away from direct sunlight.

C. Protect Portland cement based materials (bag products) from moisture and humidity. Store under cover off the ground in a dry location.

D. Protect and store accessory and auxiliary products in accordance with manufacturer’s written instructions.
1.11 PROJECT/SITE CONDITIONS

A. Maintain ambient and surface temperatures above 40 degrees F (4 degrees C) during application and drying period, minimum 24 hours after application of air and moisture barrier materials.

B. Provide supplementary heat for installation in temperatures less than 40 degrees F (4 degrees C) or if surface temperature is likely to fall below 40 degrees F (4 degrees C).

C. Provide protection of surrounding areas and adjacent surfaces from application of materials.

1.12 WARRANTY

A. Provide manufacturer’s standard warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Sto Corp.

B. Obtain primary air barrier and accessory air barrier materials from single source.

2.2 MATERIALS

A. Primary Air Barrier Material: StoGuard with Sto Gold Coat – ready-mixed flexible spray or roller applied air and moisture barrier material.

B. Accessory Materials

(Select one of the following joint treatments)

1. Sheathing Joint Treatments
   a. Sto RapidGuard™: one component STPE rapid drying gun-applied treatment for sheathing joints, rough openings, seams, cracks, penetrations and other transitions in above grade wall construction
   b. StoGuard RapidFill™: one component rapid drying gun-applied joint treatment for sheathing joints.
   c. Sto Gold Fill® with StoGuard Mesh: ready mixed coating applied by trowel or knife over nominal 4.2 oz/yd² (142 g/m²) self-adhesive, flexible, symmetrical, interlaced glass fiber mesh.
   d. Sto Gold Coat® with StoGuard Fabric: flexible air and moisture barrier membrane material for embedding non-woven integrally reinforced cloth reinforcement.

(Select one of the following rough opening treatments)

2. Rough Opening Treatments
   a. Sto RapidGuard™: one component STPE rapid drying gun-applied treatment for sheathing joints, rough openings, seams, cracks, penetrations and other transitions in above grade wall construction
b. StoGuard RapidSeal: one component rapid drying gun-applied rough opening protection for frame and CMU walls. Also used as a detail component for shingle lap transition at flashing.

c. Sto Gold Coat with StoGuard Fabric and StoGuard Redicorner™: flexible air and moisture barrier membrane material with non-woven integrally reinforced cloth reinforcements. Also used as a detail component for shingle lap transition at flashing.

d. Sto Gold Fill with StoGuard Mesh: ready mixed coating applied by trowel or knife with nominal 4.2 oz/yd² (142 g/m²) self-adhesive, flexible, symmetrical, interlaced glass fiber mesh. Also used as a detail component for shingle lap transition at flashing.

e. StoGuard Tape: self-adhered rubberized asphalt tape for frame walls with polyester fabric facing.

3. Transition Detail Components

a. StoGuard Transition Membrane: flexible air and moisture barrier membrane for continuity at static transitions: sheathing to foundation, dissimilar materials (CMU to frame wall), wall to balcony floor slab or ceiling, and shingle lap transitions to flashing. Also used for dynamic joints: floor line deflection joints, masonry control joints, and through wall joints in masonry or frame construction.

b. Sto RapidGuard: one component STPE rapid drying gun-applied treatment for sheathing joints, rough openings, seams, cracks, penetrations and other static transitions in above grade wall construction such as: shingle lap transition to flashing, wall to balcony floor slab or ceiling, and through wall penetrations – pipes, electrical boxes, and scupper penetrations.

c. StoGuard RapidFill: one component gun-applied air and moisture barrier membrane material for continuity at static transitions such as: flashing shingle laps, wall to balcony floor slab or ceiling, and through wall penetrations such as pipes, electrical boxes, and scupper penetrations.

4. Primers

a. StoGuard Primer: rubber resin emulsion primer for use with StoGuard Tape to enhance adhesion.

(Auxiliary materials are furnished by others)

C. Auxiliary Materials

1. Wet sealant: Dow Corning 758, 790, 791, and 795 sealants
2. Pre-cured sealant tape: Dow 123
3. Spray adhesive: 3M Super 77 Spray Adhesive
4. Spray foam: Dow Great Stuff for Gaps and Cracks

D. Patching and Leveling Material for Concrete and Masonry

1. Sto Leveler: polymer modified cementitious patch and leveling material for prepared concrete and masonry surfaces up to 1/4 inch (6 mm).
2. Sto BTS Xtra: polymer modified lightweight cementitious patch and leveling material for prepared concrete and masonry surfaces up to 1/8 inch (3 mm).
2.3 PERFORMANCE REQUIREMENTS

A. Durability, resistance to aging, water and water penetration resistance, structural loading: joint treatment and primary air barrier material, comply with ICC ES AC 212

B. Flexibility: ASTM D 522, primary air barrier material, no cracking or delamination before and after aging using 1/8 inch (3 mm) mandrel at 14º F (10º C)

C. Nail sealability: ASTM D 1970, 7.9.1, primary air barrier passes

D. Resistance to mold: ASTM D 3273, no mold growth after 28 day exposure

E. Adhesion: joint treatment and primary air barrier material, ASTM C 297 or D 4541, ≥ 30 psi (207 kPa), or exceeds strength of glass mat facing on glass mat gypsum substrates

F. Surface burning: ASTM E 84, joint treatment and primary air barrier material flame spread ≤ 25, smoke developed ≤ 450, Class A building material

G. Water vapor permeance: ASTM E 96 Method B, > 10 perms (570 ng/Pa∙s∙m²)

H. Field adhesion testing: ASTM D 4541, ≥ 30 psi (207 kPa) or exceeds strength of glass mat facing on glass mat gypsum substrates


J. Building envelope air leakage: ASTM E 779 or 1827, < 0.4 cfm/ft² (2 L/s·m²)

K. Material air leakage: ASTM E 2178, primary air barrier and joint treatment < 0.004 cfm/ft² at 1.57 psf (0.02 L/s∙m² at 75 Pa)

L. Assembly air leakage: ASTM E 2357, < 0.04 cfm/ft² (0.2 L/s·m²) air leakage after conditioning protocol

M. Fire propagation: NFPA 285, meets requirements for use on all Types of construction. Refer to ICC-ESR 1233.

N. Volatile Organic Compounds: SCAQMD Rule 1113, joint treatment and primary air barrier material ≤ 100 g/L

O. Water-resistive barrier: ICC ES 212, joint treatment and primary air barrier material comply and are listed in a valid ICC ESR.

2.4 DESIGN CRITERIA

A. Structural (Wind and Axial Loads)
   1. Design for maximum allowable deflection normal to the plane of the wall: L/240. Where cladding dictates stiffer deflection criteria use cladding design criteria for maximum allowable deflection.
   2. Design for wind load in conformance with code requirements.

B. Moisture Control
   1. Prevent the accumulation of water in the wall assembly and behind the exterior wall cladding:
a. Minimize condensation within the assembly.
b. Drain water directly to the exterior where it is likely to penetrate components in the wall assembly (windows and doors, for example).
c. Provide corrosion resistant flashing to direct water to the exterior in accordance with code requirements, including: above window and door heads, beneath window and door sills, at roof/wall intersections, floor lines, decks, intersections of lower walls with higher walls, and at the base of the wall.

C. Air Barrier Continuity: provide continuous air barrier assembly of compatible air barrier components.

D. Substrates
   1. Concrete Masonry Units: provide CMU surfaces in conformance with the applicable building code, and such that a void and pinhole free air barrier is achieved. Provide normal weight units with flush joints (struck flush with the surface) and allow for a minimum of 2 coats of the primary air barrier material, applied by spray or roller. Alternatively, for “rough” CMU wall surfaces allow for a cementitious parge coat to fill and level irregular surfaces, prior to 1 coat of the primary air barrier material.
   2. Concrete: provide concrete in conformance with the applicable building code.
   3. Sheathing: provide gypsum sheathing in compliance with ASTM C 1177, provide APA Exterior or Exposure 1 wood-based sheathing, and provide sheathing that meets required design wind pressures.

E. Mechanical Ventilation: maintain pressurization and indoor humidity levels in accordance with recommendations of ASHRAE (see 2005 ASHRAE Handbook—Fundamentals).

**PART 3 EXECUTION**

3.1 EXAMINATION

A. Inspect concrete and concrete masonry surfaces for:
   1. Contamination – algae, dirt, dust, efflorescence, form oil, fungus, grease, mildew or other foreign substances.
   2. Surface deficiencies – weak, friable, chalkiness, laitance, bugholes, and spalls.
   3. Cracks – measure crack width and record location of cracks.
   4. Damage or deterioration.
   5. Moisture content and moisture damage – use a moisture meter to determine if the surface is dry enough to receive the waterproof air barrier and record any areas of moisture damage or excess moisture.
   6. Flush masonry mortar joints completely filled with mortar.

B. Inspect sheathing application for compliance with applicable requirement:

C. Report deviations from the requirements of project specifications or other conditions that might adversely affect the air and moisture barrier installation. Do not start work until deviations are corrected.

3.2 SURFACE PREPARATION

A. Concrete Masonry

1. Surface must be structurally sound and free of weak or damaged surface conditions such as laitance or spalls. Surface must be clean, dry, frost-free, and free of any bond-inhibiting materials such as dust, dirt, oil, algae, mildew, salts, efflorescence, or any other surface contamination. Mortar joints must be struck flush with the surface.

2. Remove excess mortar from masonry ties, lintels and shelf angles.

3. Remove loose or damaged material by water-blasting, sandblasting or mechanical wire brushing. Remove surface contamination such as dirt or efflorescence by chemical or mechanical means. Repair surface defects such as spalls, voids and holes with Sto BTS Xtra (up to 1/8 inch [3 mm] thick) or Sto Leveler (up to 1/4 inch [6 mm] thick).

4. Repair non-structural cracks up to 1/8 inch (3 mm) wide by raking with a sharp tool to remove loose, friable material and blow clean with oil-free compressed air. Apply joint treatment material over crack, embed reinforcement (where applicable), and smooth joint treatment material with a trowel, drywall or putty knife to cover the reinforcement.

IMPORTANT: For “rough” CMU wall surfaces skim coat the entire wall surface with the leveling material to fill and level the surface prior to applying the air and moisture barrier membrane and transition materials. When a skim coat of the leveling material is installed only one coat of the air and moisture barrier coating is typically required. Use the mock-up and site tests as the basis for the work.

B. Concrete

1. Surface must be structurally sound and free of weak or damaged surface conditions such as laitance, bugholes, or spalls. Surface must be clean, dry, frost-free, and free of any bond-inhibiting materials such as dust, dirt, oil, form release, algae, mildew, salts, efflorescence, or any other surface contamination.

2. Remove projecting fins, ridges, form ties, and high spots by mechanical means.

3. Remove loose or damaged material by water-blasting, sandblasting or mechanical wire brushing. Remove form release by chemical or mechanical means. Repair surface defects such as honeycombs, pitting, spalls, voids or holes with Sto BTS Xtra (up to 1/8 inch [3 mm] thick) or Sto Leveler (up to 1/4 inch [6 mm] thick).

4. Repair non-structural cracks up to 1/8 inch (3 mm) wide by raking with a sharp tool to remove loose, friable material and blow clean with oil-free compressed air. Apply joint treatment material over crack, embed reinforcement (where applicable), and smooth joint treatment material with a trowel, drywall or putty knife to cover the reinforcement.

C. Sheathing

1. Remove and replace damaged sheathing.
2. Spot surface defects such as over-driven fasteners, knot holes, or other voids in sheathing with knife grade joint treatment material.

3. Spot fasteners with knife grade or coating joint treatment material.

### 3.3 INSTALLATION

#### 3.3.1 Air/Moisture Barrier Installation over Exterior or Exposure I Wood-Based Sheathing (Plywood and OSB), Glass Mat Faced Gypsum Sheathing in compliance with ASTM C 1177, concrete, and concrete masonry (CMU) wall construction

A. Coordinate work with other trades to ensure air barrier continuity with connections at foundation, floor lines, flashings, lintels and shelf angles, openings and penetrations such as pipes, vents, windows and doors, masonry anchors, rafters or beams, joints in construction, projections such as decks and balconies, and roof line.

B. Transition Detailing: detail transition areas with Sto RapidGuard or StoGuard Transition Membrane to achieve air barrier continuity. For illustrations of installation, refer to Sto Guide Details and Sto RapidGuard Installation Guide or StoGuard Transition Membrane Installation Guide (www.stocorp.com).

C. Rough opening protection

1. Install rough opening protection. Refer to Sto details and applicable Sto product bulletins.

D. Sheathing joints

1. Install joint treatment material over sheathing joints. Refer to Sto details and applicable Sto product bulletins.

E. Air and moisture barrier coating

1. Concrete – install one coat of Sto Gold Coat by spray or roller in a uniform, continuous film of 10 wet mils to the prepared concrete substrate. Do not install over working or moving joint sealants.

2. Concrete Masonry – install one liberal coat of Sto Gold Coat by spray or roller in a uniform, continuous film to the prepared concrete masonry substrate. Backroll spray applications. Allow to dry. Install a second liberal coat in a uniform, continuous film, and backroll spray applications, to achieve a void and pinhole free surface. Depending on the condition of the surface a minimum of 10 wet mils up to a maximum of 30 wet mils per coat is required. Apply additional coats if needed to achieve a void and pinhole free surface. Do not install over working or moving joint sealants.

**IMPORTANT:** The number of coats and thickness is highly dependent on CMU composition, unit weight (lightweight or normal weight), porosity, joint profile, and other variables that may exist. For "rough" CMU wall surfaces skim coat the entire wall surface with the leveling material to fill and level the surface prior to applying the air and moisture barrier coating and transition materials. When a skim coat of the leveling material is installed only one coat of the air and moisture barrier coating is typically required. Use the mock-up and site tests as the basis for the work.

3. Sheathing

a. Glass mat faced gypsum sheathing: install one coat of Sto Gold Coat by spray or roller in a uniform, continuous film of 10 wet mils to the prepared glass mat gypsum
3.4 FIELD QUALITY CONTROL

A. Owner’s qualified testing agency or building envelope consultant shall perform inspections and tests.

B. Inspections: air barrier materials are subject to inspection to verify compliance with requirements.
   2. Installation of primary air barrier material, accessory materials, and compatible auxiliary materials over structurally sound substrates and in conformance with architectural design details, contractor’s shop drawings, project mock-up, and manufacturer’s written installation instructions.
   3. Air barrier continuity and connections without gaps and holes at foundation, floor lines, flashings, lintels and shelf angles, openings and penetrations such as pipes, vents, windows and doors, masonry anchors, rafters or beams, joints in construction, projections such as decks and balconies, and roof line.

C. Tests: air barrier materials and assembly are subject to tests to verify compliance with performance requirements:
   1. Qualitative air leakage test: ASTM E 1186
   2. Quantitative air leakage test: ASTM E 779, E 783, and E 1827
   3. Adhesion test: ASTM D 4541
   4. Qualitative adhesion and compatibility testing: wet sealant manufacturer’s field quality control adhesion test

D. Repair non-conforming substrates and air barrier material installation to conform with project requirements.

E. Take corrective action to repair and replace, reinstall, seal openings, gaps, or other sources of air leakage to conform with project performance requirements.

3.5 PROTECTION AND CLEANING

A. Protect air barrier materials from damage during construction caused by wind, rain, freezing, continuous high humidity, or prolonged exposure to sun light.

B. Protect air barrier materials from damage from trades, vandals, and water infiltration during construction.

C. Repair damaged materials to meet project specification requirements.
D. Clean spills, stains, soiling from finishes or other construction materials that will be exposed in the completed work with compatible cleaners.

E. Remove all masking materials after work is completed.

ATTENTION

Sto products are 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. They 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 Sto products or use as part of an improperly designed or constructed larger assembly or building may result in serious damage to Sto products, and to the structure of the building or its components. **STO CORP. DISCLAIMS ALL WARRANTIES EXPRESS 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).