

# Sto BTS® Xtra

80731 Sto BTS® Xtra

## Now StoSilo compatible



### Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
Adhesion (psi)	ASTM C-297 Modified	28 days	> 15 Glass Mat-Faced Gypsum Sheathing* > 20 EPS Board* > 65 Concrete > 40 Cement Board > 40 OSB Sheathing with Sto Gold Coat®
Impact Resistance	ASTM E-2486 (formerly EIMA 101.86)	Standard Impact Classification	Pass

\* Failure of substrate

### Features Benefits

1	<b>Lightweight</b>	Easier to carry, easier to spread, less worker strain than conventional base coat materials
2	<b>Sustainability / LEED Credits</b>	Greater than 17 % recycled content
3	<b>Complete cover of Reinforcing Mesh</b>	Improves job site quality, no need to go back and re-skim walls, fewer call-backs
4	<b>One-Component</b>	Ready to use; easily mixed with water on the job site
5	<b>Polymer-Modified</b>	Excellent adhesion; increases durability and freeze/thaw resistance
6	<b>High Polymer/Cement Ratio</b>	Improved flexural strength; resists cracking
7	<b>Creamy Smooth Consistency</b>	Trowels easily; increases job site productivity
8	<b>Vapor Permeable</b>	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
9	<b>High Build</b>	Labor savings; can be applied to 1/8" (3 mm) thickness in one application with standard reinforcing mesh, can be used to pre-level irregular wall surfaces, up to 1/4" prior to installation of reinforced base coat.
10	<b>Factory blended Portland Cement</b>	Assures performance mix ratio
11	<b>Low Cement Ratio</b>	Less alkalinity, less free lime, less efflorescence
12	<b>Bagged Powder Product</b>	Less solid waste than pails; freezing protection not required prior to use
13	<b>StoSilo Compatibility</b>	Labor savings and the ability to shorten project timelines

### Surface Preparation

**As an adhesive StoGuard® Air/Moisture Barrier:** ensure surface is clean, dry and free of surface contamination. Install StoTherm ci insulation board with adhesive within 30 days of the application of Sto Gold Coat, or clean the surface and recoat with Sto Gold Coat.

**Concrete or Masonry:** surfaces must be clean, dry and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, laitance, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired. Avoid application over irregular surfaces. Resurface, patch or level

surfaces to required tolerance and smoothness with appropriate Sto leveling materials. Refer to ASTM D-4258 and ASTM D-4261 for complete details on preparing cementitious substrates for coatings.

**Glass Mat Gypsum Sheathing in Compliance with ASTM C 1177:** ensure surface is clean, dry and free of surface contamination. Sheathing must be installed and protected in accordance with manufacturer's and building code requirements. Remove and replace weather-damaged sheathing. Avoid application over irregular, out of plane surfaces. Install StoTherm ci insulation board with adhesive within 30 days of installation of the sheathing.

Sto BTS® Xtra is a one-component, polymer-modified, cement based dry powder material used as a lightweight adhesive and base coat in StoTherm® ci Systems, StoQuik® Silver Cement Board Stucco Systems, and as a base coat in Autoclaved Aerated Concrete (AAC) wall finish applications.

**Coverage**  
"Through the wall": approximately 55-75 ft<sup>2</sup> (5.1-7 m<sup>2</sup>) per bag (when used for both adhesive and base coat application).

As adhesive over sheathing: approximately 90-135 ft<sup>2</sup> (8.4-12.5 m<sup>2</sup>) per bag, applied with a 1/2" x 1/2" (13 mm x 13 mm) U-notched trowel.

As adhesive over masonry: approximately 85-100 ft<sup>2</sup> (7.9-9.3 m<sup>2</sup>) per bag, applied with a 5/8" by 5/8" (16 mm x 16 mm) square-notched trowel.

As a base coat: approximately 80-125 ft<sup>2</sup> (7.4-11.6 m<sup>2</sup>) per bag.

As a skim coat: approximately 90-135 ft<sup>2</sup> (8.4-12.5 m<sup>2</sup>) per bag.

At 1/8" application: approximately 40-63 ft<sup>2</sup> (3.7-5.9 m<sup>2</sup>) per bag.

At 1/4" application: approximately 20-32 ft<sup>2</sup> (1.9-3.0 m<sup>2</sup>) per bag.

Coverages may vary depending on application technique and surface conditions.

**Packaging**  
38 lb. bag (17.2 kg)

**Shelf Life**  
12 months, if properly stored and protected from extreme heat [90°F (32°C)], moisture and direct sunlight.

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

# Sto BTS® Xtra

## Surface Preparation cont.

### As a base coat

**StoTherm ci Insulation Board:** insulation must be rasped and free of all bond inhibiting materials.

**Concrete or Masonry:** surfaces must be clean, dry and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, laitance, form oil and other foreign matter. Loose or damaged material must be removed by water blasting, sandblasting or mechanical wire brushing and repaired.

**StoQuik Silver Cement Board Stucco:** cement board must be properly installed, clean, dry, and free of frost and all bond inhibiting material.

**Autoclaved Aerated Concrete (AAC):** surface must be clean, dry and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, weak surface conditions, and other foreign matter.

## Mixing

Mix automatically using Sto's Continuous Mixer, or mix by adding one 38 lb. (17.2 kg) bag of Sto BTS Xtra to 4.75-5 quarts (4.5-4.7 L) of clean, potable water in a clean mixing pail. Mix with a clean, rust-free electric drill and paddle. Allow to set approx.

5 minutes, adjust mix if necessary by adding up to 0.5 quarts (0.5 L) of water, remix to a uniform consistency. Avoid re-tempering after mixing of product. Do not exceed maximum amount of water in mix ratio.

## Application

**As an adhesive:** Apply to the back of Sto Insulation board with the appropriate size notched trowel, or directly onto the substrate using Sto's M-8 spray pump or StoSilo, then the appropriate size notched trowel. Form uniform ribbons of adhesive parallel to the short dimension of the board. Immediately install the insulation board horizontally with staggered joints and apply firm pressure over the entire board surface. Do not delay installation once adhesive is applied.

**As a base coat:** Apply with spray equipment such as Sto's M-8 Spray Pump, StoSilo or manually using a stainless steel trowel to an approximate wet thickness of 1/8" (3 mm). Work horizontally or vertically in strips of 40" (1 m) and immediately embed Sto Mesh in the wet Sto BTS Xtra by troweling from the center to the edges of the mesh. Avoid wrinkles in the mesh and smooth the base coat to eliminate trowel marks. Minimum recommended thickness of the reinforced base coat is 1/16" (1.6 mm) when dry. The mesh must be fully embedded so that no mesh color shows through the base coat when it is dry. Reapply additional base coat if necessary to achieve minimum thickness as soon as the first application is dry.

**As a skim coat or leveler on concrete and masonry:** Apply in one application to a maximum thickness of 1/4" (6 mm) to the prepared surface and smooth the surface.

Once applied, the working time is up to 15 minutes depending upon material, ambient temperatures and surface conditions.

### Curing and Drying

Dries within 24 hours under normal {70°F (21°C)} drying conditions. Allow additional drying time during cold, humid, or wet weather until insulation board is fully adhered before rasping, and before application of primer or finish to hardened Sto BTS Xtra.

Protect from rain and freezing until completely dry.

Sto recommends priming using the appropriate Sto primer prior to application of finish.

### Clean Up

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

## Health And Safety

### Health Precautions

Contains Portland cement and crystalline silica. Avoid breathing dust. As with any chemical product, exercise care when handling.

### DANGER!

Causes serious eye damage and/or skin irritation. May cause an allergic skin reaction, respiratory irritation, drowsiness or dizziness.

### Safety Precaution

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

### 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 eye lids with fingers. Get immediate medical attention. SKIN CONTACT:

Immediately wash skin with plenty of soap and water for at least 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 medical attention immediately.

INGESTION: If swallowed, do NOT induce vomiting. Call a physician or a 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](http://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.

## Limitations

- Use only when surface and ambient temperatures are above 40°F (4°C) during application and drying period.
- Sto BTS Xtra should not be used on weather-exposed horizontal or below-grade surfaces or where immersion in water may occur
- When pumping Sto BTS Xtra with the StoSilo, hose length is limited to 210 feet.
- Prevent rapid loss of moisture from exposure to direct sun, wind, and high temperatures.
- Sloped surfaces: Refer to Sto details.
- Not for use as a finish coating.
- Not for use over wood surfaces except for wood sheathing surfaces protected by StoGuard® with Sto Gold Coat®.

**Sto Corp.**  
3800 Camp Creek Parkway  
Building 1400, Suite 120  
Atlanta, GA 30331

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Revision: A3.1  
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Tel: 404-346-3666  
Toll Free: 1-800-221-2397  
Fax: 404 346-3119

[www.stocorp.com](http://www.stocorp.com)

### 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](http://www.stocorp.com).