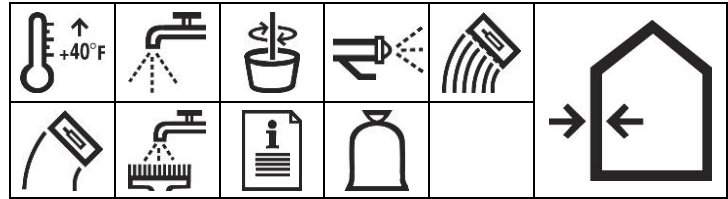


# Sto BTS<sup>®</sup> Silo

81727 Sto BTS Silo



## Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
<b>Surface Burning</b>	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 10
<b>Adhesion (psi) [kPa]</b>	ASTM C-297 Modified	28 days	> 30 Gypsum Sheathing* [207] > 15 EPS Board* [103] > 100 Concrete Block* [689]
<b>Impact Strength</b>	EIMA 101.86	Standard Impact Classification	Pass

\* Failure of substrate

## Features Benefits

<b>1 One-Component</b>	Ready to use; easily mixed with water on the job site
<b>2 High Polymer/Cement Ratio</b>	Improved flexural strength; resists cracking
<b>3 Creamy Smooth Consistency</b>	Trowels easily; increases job site productivity
<b>4 Vapor Permeable</b>	Allows substrate to breathe naturally; resists blisters caused by trapped vapor
<b>5 Polymer-Modified</b>	Excellent adhesion; increases durability and freeze/thaw resistance
<b>6 High Build</b>	Labor savings; can be applied to 1/16" (1.6 mm) thickness in one application with standard reinforcing mesh
<b>7 StoSilo System Application</b>	Provides consistent mix ratio; improved job site quality control; labor savings

A one-component, polymer-modified, cement based, dry powder material used as an adhesive and base coat in Sto Wall Claddings, including StoTherm<sup>®</sup> ci Systems.. It is specially designed for use with StoSilo system equipment, which mixes, pumps, and sprays Sto BTS<sup>®</sup> Silo.

### Coverage

"Through the wall": 65-90 ft<sup>2</sup> (6.0-8.4 m<sup>2</sup>) per bag (when used for both adhesive and base coat applications).

As an adhesive over sheathing and smooth masonry: 110-170 ft<sup>2</sup> (10.2-15.8 m<sup>2</sup>) per bag, applied with a 1/2" x 3/8" wide (13 mm x 10 mm) U-notched trowel having 2-1/8" (54 mm) spread between notches.

As an adhesive over rough or uneven masonry: 38-55 ft<sup>2</sup> (3.3-5.1 m<sup>2</sup>) per bag, applied with a 5/8" x 5/8" (16 mm x 16 mm) square-notched trowel having 5/8" (16 mm) spread between notches.

As a base coat: 100-160 ft<sup>2</sup> (9.3-14.9 m<sup>2</sup>) per bag.

As a skim coat: 110-160 ft<sup>2</sup> (10.2-14.9 m<sup>2</sup>) per bag.

Coverage may vary depending on application technique and surface conditions.

### Packaging

60 lb. bag (27 kg).

### Shelf Life

12 months, if protected from moisture and properly stored.

### Storage

Store off the ground in a dry area. Protect from direct sunlight, extreme heat [90°F (32°C)] and freezing.

## Surface Preparation

**Concrete and masonry surfaces:** Surfaces must be clean, dry, and free of frost, damage, and all bond-inhibiting materials, including dirt, efflorescence, 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 methods of preparing cementitious substrates for coatings.

## Mixing

Connect a source of clean, potable water to the StoSilo Water Control Center. Set the water flow rate to provide the desired consistency of material (the suggested initial setting is 500 L/hr).

## Application

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

**As an adhesive:** Apply to the back of the insulation board with the appropriate size notched trowel. When using Sto's M-8 Spray pump apply directly onto the substrate. Form uniform ribbons of adhesive parallel to the short dimension of the board so the ribbons are oriented vertically in relation to the plane of the wall. Immediately install the board horizontally with staggered joints and apply firm pressure over the board surface.

**As a base coat:** Apply with spray equipment such as the StoSilo System or apply manually with a stainless steel trowel to an approximate thickness of 1/8" (3.2 mm). Work horizontally or vertically in strips of 40" (1 m) and immediately embed Sto Mesh in the wet Sto BTS® Silo 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. Reapply

## Limitations

- Use Sto BTS Silo only when surface and ambient temperatures are above 40°F (4°C) during application and drying period.
- Sto BTS Silo should not be used on weather-exposed horizontal or below grade surfaces or where immersion in water may occur.

**Sheathing:** (Gypsum sheathing in compliance with ASTM C-79 or Glass Mat faced gypsum sheathing in compliance with ASTM C-1177 [such as Dens-Glass Gold]). Surface must be clean, dry and free of all bond-inhibiting materials. Sheathing must be installed and protected in accordance with manufacturer's requirements. Remove and replace weather-damaged sheathing. Avoid application over irregular, out of plane surfaces.

**StoTherm® Exterior Insulation and Finish Systems (EIFS):** Insulation board must be rasped and free of all bond-inhibiting materials.

Sto BTS® Silo can also be mixed with 6-8 quarts (5.7-7.6 L) of clean, potable water per 60 lb. (27 kg) bag using an electric drill and clean, rust-free paddle. Mix to a uniform consistency. Avoid retempering after mixing of product.

additional base coat if necessary to achieve minimum thickness as soon as the first application is dry.

**As a skim coat:** Apply in one application to a maximum thickness of 1/16" (1.6 mm) to the prepared surface and smooth the surface.

### Curing/Drying

Dries within 24 hours under normal drying conditions [70°F (21°C), 50% RH]. Allow additional drying time during cold and/or humid weather before application of primer, then finish, to hardened Sto BTS Silo.

Protect from rain and freezing and continuous high humidity 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 can only be removed mechanically.

- Do not use as a finish coating.
- Do not use over wood surfaces except for wood sheathing surfaces protected by StoGuard®
- Prevent rapid loss of moisture from exposure to direct sun, wind and high temperatures.
- Sloped surfaces: Refer to Sto details.

## Health And Safety

### Health Precaution

Contains Portland cement and crystalline silica. Avoid breathing dust. As with any chemical construction 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) at [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.

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