



# Sto BTS™ Silo

## 727SILO

Division 7

*Sto BTS Silo is a one-component, polymer-modified, cement based material used as an adhesive and base coat in Sto Cladding Systems, including Sto EIFS NExT™.*

*It is specially designed for use with StoSilo system equipment, which mixes, pumps, and sprays Sto BTS Silo.*

### Features & Benefits

#### One-component:

Ready to use; mix with water on the job site

#### High polymer/ cement ratio:

Improved flexural strength; resists cracking

#### Creamy smooth consistency:

Trowels easily; increases job site productivity

#### Vapor permeable:

Allows substrate to breathe naturally; resists blisters caused by trapped vapor

#### Polymer-modified:

Excellent adhesion; increases durability and freeze/thaw resistance

#### High build:

Labor savings; can be applied to 1/16" (1.6 mm) thickness in one application with standard reinforcing mesh

#### StoSilo system application:

Provides consistent mix ratio; improved job site quality control; labor savings

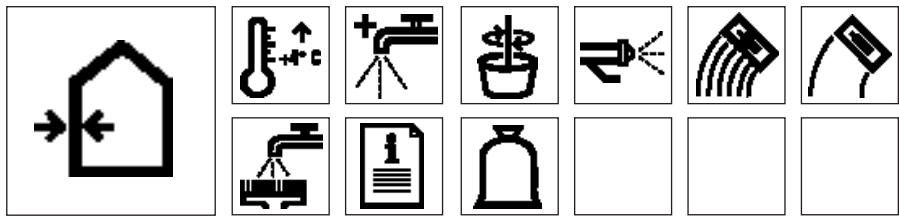
### Technical Data

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

\* Failure of substrate.

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## 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: 110-170 ft<sup>2</sup> (10.2-15.8 m<sup>2</sup>) per bag, applied with a 1/2" x 1/2" (13 mm x 13 mm) U-notched trowel.

As an adhesive over masonry: 100-130 ft<sup>2</sup> (9.3-12.1 m<sup>2</sup>) per bag, applied with a 5/8" x 5/8" (16 mm x 16 mm) square-notched trowel.

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.

Coverages may vary depending on application technique and surface conditions.

## Packaging

60 lb. bag (27 kg) & 2000 lb. Big Bag (907 kg)

## Shelf Life

12 months, if protected from moisture.

## Storage

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

## Surface Preparation

**Concrete and masonry surfaces:** Surfaces must be free of all bond-inhibiting materials, including dirt, efflorescence, form oil, and other foreign matter. Loose or damaged material must be removed by waterblasting, 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.

## Sto Exterior Insulation and Finish Systems (EIFS):

Insulation board must be rasped and free of all bond-inhibiting materials.

## 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).

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.

## Application

**As an adhesive:** Apply to the back of the insulation board or directly to the substrate using the StoSilo hose and spray nozzle, or a notched trowel. Form uniform ribbons of adhesive parallel to the long\* dimension of the boards, using the appropriate notched trowel. Immediately install the board horizontally with staggered joints and apply firm pressure over the entire board surface.

\*NOTE: For drainage of incidental moisture, form adhesive ribbons parallel to the short dimension of the insulation board.

**As a base coat:** Apply with spray equipment such as the StoSilo System or a stainless steel trowel to an approximate thickness of 1/8" (3.2 mm). Work horizontally or vertically in strips of 40" (1016 mm) 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 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.

Protect from rain and freezing until completely dry.

## Curing/Drying

Sto BTS™ Silo dries within 3 hours, hardens within 12 hours depending on temperatures/humidity and surface conditions.

## Clean Up

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

## Limitations

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

Sloped surfaces: minimum required slope is 1:2 (27°) and maximum width is 12" (305 mm). Sto Mesh embedded in Sto Flexyl, not BTS Silo™, is required beneath finish coating on sloped surfaces. Increase slope for northern climates to prevent accumulation of ice/snow and water on surface. Periodic inspection and increased maintenance of finish coating may be required.

Do not use as a finish coating. Do not use over wood surfaces except for wood surfaces protected by Sto Guard™.

## Health & Safety

### Health Precautions

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

### Safety Precautions

Use adequate ventilation. Use of a NIOSH/MSA-approved dust respirator, safety goggles and protective gloves is recommended.

### 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 in an appropriate container. Uncured material may be removed with water.

### Disposal

Dispose in accordance with local, state or federal regulations.

### Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Material Safety Data Sheet 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., 3800 Camp Creek Parkway, Building 1400, Suite 120, Atlanta, GA 30331; Tel: 404-346-3666; Fax: 404-346-3119.

### Sto Corp.

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