



Sto BTS® Plus

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Division 7

Sto BTS® Plus is a one-component, polymer-modified, cement based, dry powder material used as an adhesive and base coat in Sto Wall Claddings, including Sto Classic NEXt® and Sto Premier NEXt™. It is specially designed to provide for minimum 1/16" base coat thickness in a single application.

Features & Benefits

One-component

Ready to use; easily mixed with water on the job site

Polymer-modified

Excellent adhesion; increases durability and freeze/thaw resistance

High polymer/ cement ratio

Improved flexural strength; resists cracking

Creamy smooth consistency

Trowels on easily; increases job site productivity

Vapor permeable

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

High build

Apply to 1/16" in a single pass; labor savings

Factory blended Portland cement

Assures performance mix ratio

Low cement ratio

Less alkalinity, less free lime, less efflorescence

Bagged powder product

Less solid waste than pails; freezing protection not required prior to use

Technical Data

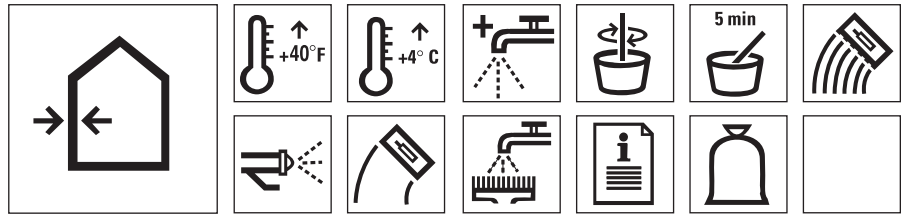
TEST	METHOD	CRITERIA	RESULTS
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 5
Adhesion (psi)	ASTM C-297 (modified)	28 days	> 30 - Gypsum Sheathing* > 15 - EPS Board* > 100 - Concrete Block > 40 - Dens-Glass® Gold** > 100 - Concrete
Impact Strength	EIMA 101.86	Standard Impact Classification	Pass

*Failure of substrate

** Dens-Glass® Gold is a registered trademark of the G-P Gypsum Corp.

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Coverage

"Through the wall": 65-90 ft² (6.0 - 8.4 m²) per bag (when used for both adhesive and base coat applications).

As an adhesive over sheathing: 110-170 ft² (10.2-15.8 m²) 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 ft² (9.3-12.1 m²) per bag, applied with a 5/8" x 5/8" (16 mm x 16 mm) square-notched trowel.

As a base coat: 100-160 ft² (9.3-14.9 m²) per bag
As a skim coat: 110-160 ft² (10.2-14.9 m²) per bag

Coverages may vary depending on application technique and surface conditions.

Packaging

60 lb. bag (27 kg)

Shelf Life

12 months, if properly stored and protected from moisture.

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 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.

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.

Mixing

Use 6-8 quarts (5.7-7.6 L) of water per 60 lb. bag (27 kg). Mix automatically using Sto's S-25 Continuous Mixer, or mix 1/2 bag at a time by adding Sto BTS® Plus to 3-4 quarts (2.8-3.8 L) of clean, potable water in a clean mixing pail. Mix

with a clean, rust-free electric drill and paddle.

Allow to set approximately five minutes, adjust mix if necessary by adding up to 1/2 pint (.24 L) of water per 1/2 bag, remix to a uniform consistency. Avoid retempering after mixing of product.

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, then the appropriate sized notched trowel. Form uniform ribbons of adhesive parallel to the long* dimension of the board. 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 Sto's M-8 Spray Pump or a stainless steel trowel to an approximate thickness of 1/8" (3 mm). Work horizontally or vertically in strips of 40" (1016 mm) and immediately embed Sto Mesh in the wet Sto BTS Plus 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® Plus dries within 3 hours, hardens within 12 hours depending upon 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® Plus only when surface and ambient temperatures are above 40° F (4° C) during application and drying period. Sto BTS® Plus should not be used on weather-exposed horizontal or below grade surfaces or where immersion in water may occur.

Sloped surfaces: Refer to Sto details.

Sto BTS® Plus should not be used as a finish coating. It should not be used 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

Refer to Sto Specifications for more complete information on proper use and handling of this product.

Sto Corp.

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