



# Sto Primer/ Adhesive-B

101

Division 7

*Sto Primer/Adhesive-B is a one-component, polymer-modified, cement based, dry powder material used as an adhesive and base coat in Sto Essence Insulated Wall Claddings, including Sto Essence NExT™.*

## 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

### Creamy smooth consistency

Trowels on easily; increases productivity

### Vapor permeable

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

### 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	> 20 - Gypsum Sheathing* > 15 - EPS Board* > 80 - Concrete Block* > 35 - Dens-Glass® Gold* **
Impact Strength	EIMA 101.86	Standard Impact Classification	Pass

\*Failure of substrate

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

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## Coverage

"Through the wall": 65-80 ft<sup>2</sup> (6.0 - 7.4 m<sup>2</sup>) per bag (when used for both adhesive and base coat applications).

As an adhesive over sheathing: 110-150 ft<sup>2</sup> (10.2-13.9 m<sup>2</sup>) per bag, applied with a 1/2" x 1/2" (13 mm x 13 mm) U-notched trowel having 2" (51 mm) spread between notches.

As an adhesive over masonry: 100-120ft<sup>2</sup> (9.3-11.1 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: 90 -140 ft<sup>2</sup> (8.4-13 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)

## Shelf Life

12 months, if properly stored and protected from moisture.

## Storage

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

## 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 D4261 for complete details on methods of preparing cementitious substrates for coatings.

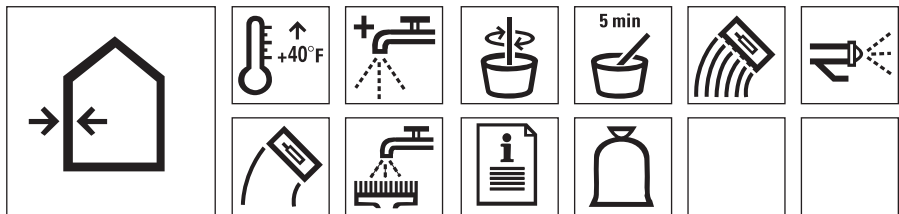
## Sto Exterior Insulation and Finish Systems

**(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 G-P Dens-Glass® Gold]). Surface must be clean, dry and free of frost, damage and 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 Continuous Mixer, or mix 1/2 bag at a time by adding Sto



Primer/Adhesive-B 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. Do not exceed maximum amount of water in mix ratio.

## Application

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

**As an adhesive:** Apply to the back of 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 Sto Essence NEX™, 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" (1 m) and immediately embed Sto Mesh in the wet Sto Primer/Adhesive-B 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 dry 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, freezing and continuous high humidity until completely dry.

## Curing/Drying

Dries within 24 hours under normal {70° F (21° C), 50% RH} drying conditions. Allow additional drying time during cold and/or humid weather before application of primer and finish to hardened Sto Primer/Adhesive-B. Sto recommends priming using the appropriate Sto Primer prior to finish application.

## Clean Up

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

## Limitations

Use Sto Primer/Adhesive-B only when surface and ambient temperatures are above 40° F (4° C) during application and drying period. Sto Primer/Adhesive-B 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 Primer/Adhesive-B should not be used as a finish coating. It should not be used over wood surfaces except for wood sheathing surfaces protected by Sto Guard™.

## Health & Safety

### Health Precautions

Contains Portland cement and crystalline-free silica. Avoid breathing dust.

### Safety Precautions

Use adequate ventilation. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately.

### 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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