



Sto Primer/ Adhesive

100

Division 7

Sto Primer/Adhesive is an acrylic-based material used as an adhesive and base coat in Sto's Essence Cladding Systems, including Sto Essence NEXt™. It is a two-component product to be combined with Portland cement.

Features & Benefits

Creamy smooth consistency

Trowels on 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

Technical Data

TEST	METHOD	CRITERIA	RESULTS
Surface Burning	ASTM E-84	< 25 Flame Spread < 450 Smoke Developed	0 0
Adhesion (psi)	ASTM C-297 Modified	> 15 psi or no failure of adhesive	> 20 - Gypsum Sheathing* > 15 - EPS Board* > 60 - Concrete Block* > 25 - 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": 95-120 ft² (8.8 - 11.1 m²) per pail, when used for both adhesive and base coat applications.

As an adhesive over sheathing: 200-250 ft² (18.6-23.2 m²) per pail, applied with a 1/2 x 1/2" (13 mm x 13 mm) U-notched trowel.

As an adhesive over masonry: 160-230 ft² (14.9-21.4 m²) per pail, applied with a 3/8 x 3/8" (16 mm x 16 mm) square-notched trowel.

As a base coat:

165-210 ft² (15.3-19.5 m²) per pail.

As a skim coat:

180-260 ft² (16.7-24.2 m²) per pail.

Coverages may vary depending on application technique and surface conditions.

Packaging

5 gal. pail (19L)

Shelf Life

12 months, if properly stored and sealed.

Storage

Protect from extreme heat [90° F (32° C)], freezing, and direct sunlight.

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.

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

Mix equal parts of Sto Primer/Adhesive to Type 1 Portland cement by volume. 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, and remix to a uniform consistency. Avoid retempering after mixing of product.



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. 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" (1016 mm) and immediately embed Sto Mesh in the wet Sto Primer/Adhesive 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, freezing and continuous high humidity until completely dry.

Curing/Drying

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

Clean Up

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

Limitations

Use Sto Primer/Adhesive only when surface and ambient temperatures are above 40° F (4° C) and below 100° F (38° C) during application and drying period. To prevent rapid loss of moisture from exposure to direct sun, wind, and high temperature, Sto Primer/Adhesive should not be used on weather-exposed horizontal or below grade surfaces or where immersion in water may occur. Prevent rapid loss of moisture from exposure to direct sun, wind and high temperatures.

Sloped surfaces: minimum required slope is 1:2 (27°) and maximum width is 12" (300 mm). Sto Mesh embedded in Sto Flexyl, not Sto Primer/Adhesive, is required beneath finish coating. 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.

Sto Primer/Adhesive should not be used as a finish coating. It should not be used over wood surfaces except for wood surfaces protected with Sto Guard™.

Health & Safety

Health Precautions

Product is water-based. As with any chemical construction product, exercise care when handling.

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 with suitable absorbent material such as cotton rags.

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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