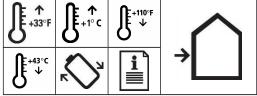


# Sto TurboStick™

81181 Sto TurboStick™



Technical Data			
REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
	ASTM E-84-10	< 25 Flame Spread	10
Surface Burning	(UL 723, UBC 8- 1, NFPA 255)	< 450 Smoke Developed	5
Tensile Strength	ASTM C-297	Greater than 15 psi	> 15 psi; cohesive failure of EPS insulation board
VOC (g/L)	This product contains no VOC's. Complies with US EPA (40 CFR 59) VOC emission standards for architectural coatings.		

use, poly	single com urethane fo	™ is a ready-to- ponent pam adhesive for PS Insulation
- and	Sto XPS In	herm <sup>®</sup> ci systems sulation Boards in PS systems. Sto

\_ TurboStick™ is also used to attach continuous insulation in Sto back up wall systems applications.

Features		Benefits	
4	Convenient	<ul> <li>Electric power not required for mixing or application</li> </ul>	
•	Convenient	<ul> <li>Easily moved from place to place on jobsite</li> </ul>	
2	Ready-to-Use	No mixing or set-up required	
3	No preparation time	Just shake the cylinder and begin applying	
4	Pre-pressurized Container	No mixing – no clean up of pails, mixing paddles, trowels,	
	Fre-pressurized Container	hawks, etc.	
5		<ul> <li>850-1,000 ft² from a single 23 lbs. cylinder (compares to</li> </ul>	
	Compact	400-500 lbs. of one-component powder adhesive)	
	Lightweight	<ul> <li>Reduced transportation cost</li> </ul>	
	High coverage rate	<ul> <li>Reduced storage space required</li> </ul>	
		<ul> <li>Reduced space needed on scaffold</li> </ul>	
6	Fact	Cures in 1 hour or less	
	Fast	<ul> <li>Less time to move on to rasp/basecoat</li> </ul>	
7	VOC Compliant	No VOC's – Meets South Coast Air Quality Management	
	VOC Compliant	District Requirements	

#### Coverage

850-1,000 ft<sup>2</sup> per cylinder ( 79-93 m<sup>2</sup>).

 Coverage may vary depending on application technique and surface conditions.

## **Packaging**

23 Lbs. (10.4 kg) net material weight, in a 31 lbs. (14.1 kg) gross weight pressurized cylinder

# **Shelf Life**

15 months, if properly stored and sealed, from manufacture date. The "use by" date is indicated on the top of the carton. Product should be used within 60 days after the cylinder's valve is first opened.

# Storage

Store in a clean, dry area at room temperatures ranging from 50 to 75°F (10 to 24°C). Protect from freezing and direct sunlight. Avoid contact with water. Keep away from sources of heat, sparks, flame, ignition and physical abuse. Avoid temperature above 110°F (43°C). Use only with adequate ventilation. Store opened cylinder by closing the on/off valve, leaving material in the hose and pistol with both pointing down, and cover the

## **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, out-of-plane 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.

### Sheathing:

- Glass Mat faced gypsum sheathing in compliance with ASTM C-1177and DensGlass Gold.
- Exterior or Exposure I wood-based sheathing in compliance with US DOC PS-1 or PS-2
- Compliant glass mat faced or wood-based sheathing protected with StoGuard® Waterproof Air Barrier system.

Surface must be clean, dry and free of all bond-inhibiting materials.

Sheathing must be installed and protected in accordance with manufacturer's and/or building code requirements. Remove and replace weather-damaged sheathing. Avoid application over irregular, out of plane surfaces.

## Mixing

Mix the contents by holding the cylinder horizontally, on its side, firmly holding both ends, and agitate the contents using a side-to-side motion for at least 15 seconds before using.



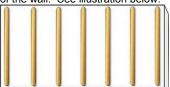
# Sto TurboStick™

## **Application**

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

Minimum ambient and surface temperature for use is 33°F (1°C) and rising. Maximum application temperature is 110°F (43°C).

- Apply using Sto TurboStick accessories (connector hose and dispensing pistol). Before use, connect the hose to the cylinder and to the dispensing pistol. Tighten both connections using 14mm, 17mm and 19mm open-end wrenches.
- 2. Slowly open the valve on top of the cylinder ½ to one revolution. Check for leaks. If no leaks, you can prepare to dispense the adhesive foam.
- 3. Apply Sto TurboStick to the back of the insulation board using the dispensing pistol. Place a ribbon of adhesive approximately  $\frac{9}{4}$ " (2cm) from both ends of the board, along its short dimension. Between these two ribbons, apply 5 additional ribbons spaced equally about 7" (18cm) apart, distributed equally across the insulation board, and extending to  $\frac{1}{4}$ " (1cm) from the edges of the insulation board at its long dimension. 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. See illustration below:



- 4. Adhesive tack times will vary with humidity. Before the adhesive ribbons skin over, install the board using <u>LIGHT</u> pressure, and staggered joints, taking care not to flatten the adhesive ribbons. The time between placing adhesive ribbons onto the insulation board and the time the ribbons skin over is usually about 1-5 minutes.
- 5. Be precise with initial board placement. Sto TurboStick will not provide opportunity to "slide" the insulation board into position after placement.
- 6. For partial boards, use the same procedure for

the vertical ends, and apply additional ribbons of vertically oriented adhesive spaced approximately 7" (18 cm) apart.

- 7. Starter Courses: Note that Sto TurboStick provides less initial "grab" compared to other Sto adhesives. For this reason, temporary support is recommended to hold the starter course in place, especially as subsequent courses of insulation board are added above.
- 8. Shortly after the boards are placed, adjust the boards, using light pressure to create and maintain the plane of the insulation boards. A long level or other straight edge is helpful for this step.

### Curing/Drying

Sto TurboStick is a moisture-cured adhesive. As a result it will cure marginally quicker in higher humidity conditions. Full curing occurs in 1 hour under normal conditions [70°F (21°C), 50% RH]. Do not attempt to rasp insulation boards until TurboStick is fully cured, and insulation boards are well adhered.

### Clean Up

Sto TurboStick can be used again without disassembling and cleaning the hose and pistol. Make sure the hose and pistol have liquid material in them when you finish using them, cover the pistol tip with plastic secured with a rubber band or twist-tie, and store with the hose and pistol pointing down. If stored properly, the hose and pistol should be reusable for up to 60 days. When one cylinder is emptied, the hose and pistol should be immediately connected to another cylinder, so that wet material remains "primed" in the hose and pistol.

Uncured or fresh foam adhesive may be removed using acetone or other solvent-based cleaning solutions. Dried material can only be removed mechanically.

# **Health And Safety**

#### DANGER!

#### **Health Precautions**

May cause allergic skin reaction. Causes eye and skin irritation. Use of a NIOSH approved respirator, safety goggles and protective gloves is recommended. May cause eye irritation. Vapor reduces oxygen available for breathing. May cause anesthetic effects. May cause respiratory tract irritation. May cause lung injury. Aspiration hazard. Elevated temperatures can cause hazardous polymerization. Toxic fumes may be released in fire situations. Contents are under high pressure. Avoid temperature above 110°F (43°C).

#### **Safety Precautions**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust, fume, gas, mist vapors, spray. Use only outdoors or in well-ventilated area. Safety goggles and protective gloves are recommended. Remove contaminated clothing immediately. Wash skin thoroughly after handling.

#### First Aid

SKIN CONTACT: Wash thoroughly with soap and water. Use of a polyglycol-based skin cleanser or corn oil may be more effective than soap and water.

EYE CONTACT: Flush eyes immediately with water for 15 minutes; remove contact lenses, if present, after the first 5 minutes, then continue flushing for the remainder or the 15 minutes. Obtain medical attention immediately.

immediately.
RESPIRATORY PROBLEMS: Remove affected person to fresh air immediately and contact a physician. INGESTION: Do not induce vomiting. Contact a physician. HYGIENE: Wash hands immediately after use. Wash clothing before re-use.

Spills

Absorb with materials such as sawdust, dirt, vermiculite, sand, clay or Milsorb. Collect in suitable and properly labeled open containers, such as metal or plastic drums or polylined fiber pacs. Wash the spill site thoroughly with water.

#### Disposal

Dispose of in accordance with local, state or federal regulations. Release contents and pressure from the cylinder before disposal. Do not discard pressurized cylinder. Do not discharge contents onto the ground, into any bodies of water or into any sewers.

## 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 <a href="www.stocorp.com">www.stocorp.com</a> for further health and safety information.

## Limitations

- Protect installed materials from rain and freezing until fully cured.
- Use Sto TurboStick only when surface and ambient temperatures are above 33°F (1°C) and below 110°F (43°C) during application and curing period.

IN CASE OF EMERGENCY, CALL CHEMTREC: 1-800-424-9300 (in U.S.) or 1-703-527-3887 (non U.S.)

## 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.

# Sto Corp.

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Tel: 404-346-3666 Toll Free: 1-800-221-2397 Fax: 404 346-3119



## S155-81181

Revision: A2.3 Date: 11/2015

#### Attention htractors, not consi

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 improperty, 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 IMPLE 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.