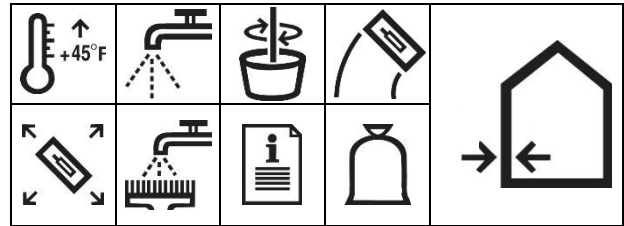


# Sto Wall Leveler and Patch

81622 Sto Wall Leveler and Patch



## Technical Data

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
<b>Working Time</b> (minutes)			15-30
<b>Compressive Strength</b> (psi)	ASTM C-109	1 day 7 days 28 days	>3,000 >5,000 >6,300
<b>Shrinkage</b> (%)	ASTM C-157	7 days 28 days	<0.1 <0.1
<b>Direct Tensile Bond</b> (psi)	ASTM D-4541	28 days	500 *

Typical laboratory testing values for material cured at 73 °F (23 °C) and 50 % RH at 12.5% water by weight.  
 Note: To convert psi to Mega Pascal (MPa) multiply by 0.0069.  
 \* 100% Failure in Substrate  
 \*\* Wet Cure

## Features Benefits

<b>1 Polymer-Modified</b>	Increases durability; excellent adhesion
<b>2 Non-sag, Low Slump</b>	Apply up to 2 inches (50 mm) in one lift on vertical surfaces; increases job-site productivity
<b>3 Low Shrinkage</b>	Stable bond line; resists perimeter cracking
<b>4 Thermally Compatible with Concrete</b>	Prevents delamination caused by temperature changes

**5 One Component** Factory-controlled polymer-to-cement ratio; ready to use; mixed with water on the job-site no chemical jugs to dispose

*Sto Wall Leveler and Patch is a single component, polymer-modified, cement-based mortar for leveling and patching concrete and CMU. Use on vertical walls for repairs from 1/8 to 2 inches (3 to 50 mm) or apply it in lifts to maximum 3 inch (76.2 mm) thickness.*

### Yield and Coverage

Approximately 0.45 ft<sup>3</sup> per 56 lbs bag when mixed with 7.0 pts of water. (0.013 m<sup>3</sup> when mixed with 3.3 L water)

Approximately 21.5 ft<sup>2</sup> per 56 lbs bag, applied at 1/4 inch thick (2 m<sup>2</sup> per 25 kg bag, at 6 mm thick).

### Packaging

56 lbs bag (25 kg).

### Shelf Life

12 months in original, unopened, properly stored container.

### Storage

Store in a dry area between 50°F (10°C) and 85°F (29°C). Protect from direct sunlight and extreme heat [(90°F (32°C)]. Store off of the ground and protect from rain.

# Sto Wall Leveler and Patch

## Surface Preparation

Remove loose and deteriorated concrete by mechanical chipping or sandblasting to obtain a fractured aggregate surface. Detail the edge of the patch to a 90° angle to eliminate feather edging.

Make sure surfaces are sound, clean, absorbent, and free of all bond-inhibiting materials including oil, dirt, dust, laitance and excess water.

## Mixing

Use Sto Wall Leveler and Patch at a preconditioned temperature of 70 ± 5°F (21 ± 3°C). Use 7.0 to 7.5 pints (3.3 to 3.3.5 L) of water per 56 lbs (25 kg) bag.

Mixing must be achieved mechanically using a slow speed, 3/4 inch (19 mm) drill and mixing paddle. Pour 7.0 pints (3.3L) of water into a clean 5 gallon (19 L) mixing bucket. Mix while slowly adding the

powder, one-third at a time. If more water is needed, up to one-half pint (0.24 L) may be added. Mix up to 3 minutes, to a uniform, lump-free consistency. Avoid over mixing which could entrap air. Once mixed, the working time is 15-30 minutes, depending upon material, ambient and surface conditions. Do not retemper,

## Application

Apply only to sound and clean, properly prepared, frost-free surfaces. Dampen the area to be repaired so that the pores of the concrete are filled with water. Remove any ponding or glistening water on the surface (saturated surface dry/SSD).

**IMPORTANT:** Work a scrub coat of the material (mixed as described above) into the substrate to ensure intimate contact and establish bond. Do not add additional water to the scrub coat.

Complete the repair while the scrub coat is wet and trowel to the desired finish. Sto Wall Leveler and Patch can be applied to a thickness of 2 inches (50 mm) in one lift. For application thickness greater than 2 inches (50 mm) apply Sto Wall Leveler and Patch in lifts to maximum thickness of 3 inches (76.2 mm).

For multiple lifts, scarify the surface of the first lift and allow it to set until hardened sufficiently to accept the next lift, about 30 minutes at 75°F (23°C). Trowel the final lift to the desired finish.

to the desired finish. Applications made during temperatures below 50°F (10°C) or above 85°F (29°C) should follow appropriate application guidelines.

## Curing

Direct sun or wind may cause unwanted rapid surface drying. Curing may be accomplished by continuous water fogging for 48 hours or cover with damp burlap or burlene curing blankets. Do not use solvent-based curing compounds. If a coating or sealer will be applied, use water fogging or blanket curing methods and prep finished surface per coating or sealer manufacturer's recommendations.

## Clean Up

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

## Health And Safety

### WARNING!

Causes serious eye damage, skin irritation, allergic skin reaction, may cause respiratory irritation, damage to organs through prolonged or repeated exposure Harmful if inhaled **Health Precautions** Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Store locked up.

### First Aid

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.  
**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention. Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**Spills:** Collect in an appropriate container. Uncured material may be removed with water.

**Disposal:** Dispose of in accordance with local, state or federal regulations.

**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) on [www.stocorp.com](http://www.stocorp.com) for further health and safety information.

### LIMITED WARRANTY

THIS PRODUCT IS SUBJECT TO AWRITTEN LIMITED WARRANTY WHICH CAN BE OBTAINED FREE OF CHARGE FROM Sto Corp.

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

## Limitations

- Apply only when the surface and ambient temperature are 45°F (7°C) and rising. See Cold Weather Application guidelines, per ACI for applications in temperatures less than 50°F (10°C). Applications made during temperatures greater than 85°F (29°C) should follow Hot Weather Application guidelines, per ACI.
- Field testing is recommended to verify surface preparation and adhesion. For application areas larger than 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) consult a qualified design professional to establish appropriate intervals for field testing.
- Application depths greater than 2 inches (50 mm) must be completed in lifts.
- The minimum required thickness is 1/8 inch (3 mm).
- Do not add more water than specified. Inaccurate field water addition will result in a finished product that may not have the stated properties.
- Do not add additional powder from other units.
- Do not overmix.
- Do not retemper.

**Sto Corp.**  
3800 Camp Creek Parkway  
Building 1400, Suite 120  
Atlanta, GA 30331

**S155-81622**  
Revision: **A1.0**  
Date: 09/2018

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

[www.stocorp.com](http://www.stocorp.com)

### Attention

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 improperly, 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 IMPLIED 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](http://www.stocorp.com).