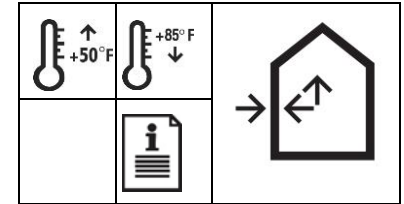


PRODUCT BULLETIN

StoCast Wood Adhesive

Product Number: 81722



PRODUCT DESCRIPTION

StoCast Wood Adhesive is a one component adhesive used to install StoCast Wood in Sto proprietary wall systems and over prepared vertical above grade concrete, concrete masonry (CMU), and stucco walls, ceilings, soffits, or over prepared interior gypsum wallboard.

FEATURES	BENEFITS
Compatible with multiple substrates	Can be used over most types of construction without changing trades
Single component	Ready to use; no mixing or proportioning of ingredients
Easy to install	Does not require highly skilled labor force, cost effective
Water-based	Easy clean-up

COVERAGE (per pail):

As an Adhesive: 130 - 150 ft² (12.0 - 14.0 m²)

As a Skim Coat: 140 - 160 ft² (13.0 - 14.8 m²)

Coverage may vary depending on substrate, application technique, waste factor, and other variables that may exist.

Color: beige

Packaging: 4.7 gallons (18L) per pail (65 lb (29.5 kg) per pail)

Shelf Life: 12 months in original, unopened, properly stored container.

Storage: Store in tightly sealed container. Protect from extreme heat [90°F (32°C)], freezing and direct sunlight.

SURFACE PREPARATION

Sto Proprietary Wall Systems: StoTherm® ci, StoVentec®, StoPowerwall®, StoQuik® Silver, StoPanel®, and StoLite® systems. Refer to applicable Sto Specification.

Concrete, concrete masonry (CMU), and portland cement stucco: must be constructed in conformance with applicable building code requirements. All surfaces must be structurally sound, clean, dry, and free of frost and surface contamination such as dust, dirt, salts, grease, oils, efflorescence, mold, algae, mildew, and any other contamination that may affect adhesion. Use appropriate repair methods for the substrate to repair pitting, spalls, cracks, peeling, blistering, delamination, weak surface conditions such as laitance, water damage, or other defects that may exist. Skim coat concrete, CMU, and stucco surfaces with Sto BTS Plus up to 1/8 inch (3mm) thick to level/fill the surface or use Sto Leveler and Skim Coat up to 1/4 inch (6mm) in one coat or 1/2 inch (13mm) in two coats. Verify bond to properly prepared surfaces as specified by design professional at 28-day age of assembly.

Interior Gypsum Wallboard: finish new interior wallboard to a minimum Level 4 finish (wallboard is taped, spotted, and sanded), remove dust or any other surface contamination, and prime with Sto StoPrime® Sand. If wallboard is painted with latex flat paint no primer is required. If paint is glossy (eggshell, satin, or gloss), degloss the surface by lightly sanding, remove dust or any other surface contamination, apply a skim coat of StoCast Wood Adhesive, and verify adhesion.

Follow instructions below for installation of StoCast Wood.

APPLICATION

- Keep planks flat. Do not fold, tear, or step on planks.
- Apply only when substrate and ambient temperatures are between 50-100°F (10-37.8°C) over structurally sound, clean, dry properly prepared frost-free surfaces.
- Do not apply over damp surfaces or during rain, hail, or snow events, or if rain, hail, or snow is imminent.
- Construct a mock-up under actual conditions of use to verify proper surface preparation, coverage, and aesthetics, for approval by the appropriate authority.
- Radius Walls: anticipate increased installation time and complexity as radii decrease (curves get tighter) and where walls have changing radii or multiple curves.

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APPLICATION (CONTINUED)

1. Brush off any loose dust or particles from the StoCast Wood planks as they are removed from packaging.
2. Install planks from top to bottom in level courses to the prepared substrate.
3. Cut planks to size as needed with a utility knife from the back side by placing the planks face down on a clean flat surface. Use a straight edge for clean, straight cuts.
4. Apply StoCast Wood Adhesive with a ¼ x ¼ inch (6x6mm) V-notched trowel over the prepared substrate. Apply horizontally or vertically in a small area and immediately install planks before a “skin” forms on the adhesive.
5. Place planks in the wet adhesive with a small (~¼ in [6mm]) space between them, then push them together
6. Apply uniform pressure with a rubber roller across the entire surface to fully compress the cast wood planks into the wet adhesive so no voids exist in the adhesive and it squeezes out to the sides.
7. When the adhesive slightly hardens (“cakes”) along the sides of the planks, remove it with a clean putty knife or plastic spatula, and discard.
8. Wipe off any remaining adhesive on the surface of the planks with a damp sponge.
9. Corners: install outside corners with a projection on one side of the corner and use a sharp utility knife to cut off the projection after the adhesive dries. Sand any remaining projections or unevenness with fine sandpaper (80-100 grit). Do not use a power sander.
10. Joints: for installation with joints between planks, skim coat the entire substrate surface with adhesive and allow to dry (Note: not required if over prepared interior gypsum wallboard surfaces). Then install the planks in the normal manner except space joints evenly (up to 3/8 inch [10mm]) in width and tool or brush the adhesive to shape the joints and to remove excess adhesive from planks. Joints MUST be top coated with StoColor coating.
11. Allow the adhesive to fully dry before top coating with 2 coats of StoColor Wood Stain, StoTique with Sto Clear Coat Sealer, or other StoColor coating. Refer to the applicable coating product bulletin for details. Topcoat within 90 days of installation and remove any surface dust, dirt, or other contamination before application of coating.

Drying

StoCast Wood Adhesive dries within 24 hours under normal conditions [70°F(21°C), 50% RH]. Full drying varies depending on temperature/humidity and surface conditions. Hot, dry conditions accelerate drying. Cool damp conditions retard drying and may require extended periods of protection from rain and freezing. Protect from

rain, freezing and continuous high humidity until completely dry.

Clean Up

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

LIMITATIONS

- Minimum radius of StoCast Wood planks: 6 inches (152mm)
- Use only when surface and ambient temperatures are between 50-100°F (10-37.8°C) during application and drying period
- Do not use on horizontal or below grade surfaces or where immersion in water may occur
- Do not use on roofs or roof-like surfaces
- Not for use with StoCast Wood as lap siding
- Use topcoats with Light Reflectance Value (LRV) greater than or equal to 20 when used over StoTherm ci or StoTherm ci XPS Systems
- Not recommended for use on walls or ceilings requiring high scrub resistance or repeated exposure to chemical cleaners such as shower stalls, food preparation areas, or hospital operating rooms.

LIMITED WARRANTY

This product is subject to a written limited warranty which can be obtained free of charge from Sto Corp.

HEALTH & SAFETY

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

WARNING: Causes eye and skin irritation.

Precautionary Statement: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID MEASURES: 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. Store locked up.

Spills: Collect with suitable absorbent material such as cotton rags.

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 for further health and safety information.

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TECHNICAL DATA

REPORT (includes StoCast Wood Adhesive, Plank, and Topcoat)	TEST METHOD	TEST CRITERIA	TEST RESULT*
Mold Resistance	ASTM D3273	No growth @28 days	No growth at 90 days
Salt Spray	ASTM B117	300 hours	No deleterious effects ¹
Water Penetration Resistance	ASTM E331	No water penetration	No water penetration @ 6.24 psf negative pressure for 2 hours as finish component of StoTherm ci
Water Resistance	ASTM D2247	14 days	No deleterious effects ¹
Tensile Adhesion	ASTM D4541	Greater than 15 psi (103 kPa) in StoTherm ci System	Greater than 15 psi (103 kPa)
Impact Resistance	ASTM E2486	No mesh fracture minimum 6 out of 10 impacts at 25-49 in-lb (2.83-5.54 J)	Pass, meets Medium impact classification (50-89 in-lb (5.65-10.1 J) as finish component of StoTherm ci
Surface Burning	ASTM E84	Flame Spread: ≤ 25 Smoke Developed: ≤ 450	Flame Spread: 0 Smoke Developed: 0
Radiant Heat Ignition²	NFPA 268	No ignition during the 20 minute test period	No ignition
Multistory Flame Spread²	NFPA 285	Complies with NFPA 285 Acceptance Criteria	Pass (qualifies for use on noncombustible construction)
Fire Resistance²	ASTM E119	Achieve hourly rating	Achieves 1 and 2- hour ratings as a component of StoTherm ci
Building Code Compliance	Class A Building Material: qualifies for use as an interior finish		
	Meets requirements for use on noncombustible construction as a finish component ² of: <ul style="list-style-type: none"> • of StoTherm® ci, StoVentec®, StoPowerwall®, StoQuik® Silver, StoPanel®, and StoLite® • StoVentec® Render Ventilated Rainscreen. Refer to Intertek Design Listing Sto/CWP 30-01 • Code compliant concrete, concrete masonry, and portland cement stucco wall assemblies 		
VOC (g/L)	This product complies with US EPA (40 CFR 59) and South Coast AQMD (Rule 1113) VOC emission standards for architectural coatings. VOC less than 50 g/L.		
* Results are based on lab testing under controlled conditions. Results can vary between labs or from field tests. 1. No deleterious effects: no cracking, checking, crazing, erosion, rusting, blistering, peeling, or delamination. 2. Results achieved as part of a full wall assembly. Complies as finish component based on rational analysis of fire test data.			

Sto Corp. 3800 Camp Creek Parkway Building 1400, Suite 120 Atlanta, GA 30331 Tel: 404-346-3666 Toll Free: 1-800-221-2397 Fax: 404 346-3119 www.stocorp.com	Revision Number: 004 Date: 07/2023	<p style="text-align: center;">ATTENTION</p> 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
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