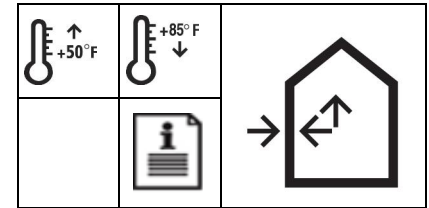


PRODUCT BULLETIN

StoCast Wood

Product Number: 81688



PRODUCT DESCRIPTION

StoCast Wood are thin, lightweight, flexible resin cast wood grain planks for the decoration and protection of facades and interior walls and ceilings. StoCast Wood create an authentic wood grain appearance and can be top coated in a wide range of colors using StoColor Wood Stain, StoTique or other StoColor coatings. Use in Sto proprietary wall systems and over prepared vertical above grade concrete, concrete masonry (CMU), and stucco walls, ceilings, and soffits or over prepared interior gypsum wallboard.

FEATURES	BENEFITS
Authentic wood appearance	45 different wood grain patterns
Lightweight	Fast, easy and cost-effective installation, reduced dead load when compared to wood or fiber cement claddings
Flexible	Achieve curved surfaces
Easy to cut and install	Minimal dust, does not require highly skilled labor force, cost effective
Pre-fabricated	Consistency quality and aesthetics, speed of application
Adhesive attachment to substrate	Eliminates nail holes, pull through at nails, and puncture of air and moisture barrier in wall assembly
Made with acrylic polymers	Durable and freeze/thaw resistant, UV resistant when top coated with Sto coating

Sizes: 6 ft long x 6 in wide planks (1.8m x 152mm)

Packaging: Cartons (25 planks, 75 ft² [7.0m²] per box)

Color: Light Beige (must be top coated).

Shelf Life: 3 years in original, unopened, properly stored packaging

Storage: Store flat, off the ground in a cool, dry environment. Do not store at temperatures less than 60°F (15°C) before application.

SURFACE PREPARATION

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

Concrete (cast-in-place, tilt-up, precast), 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 the 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 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 space (~¼ in [6mm]) 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 installation is 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 Sto finish 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.

Refer to *StoCast Wood Application Guide* for more information.

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 (of Adhesive)

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 as lap siding
- Use topcoats with Light Reflectance Value (LRV) greater than or equal to 20 when used over StoTherm ci 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

Precautionary Statement: Product is a manufactured article – not a fluid or particle. Under normal conditions of use it does not pose a physical hazard or health risk.

FIRST AID MEASURES: Eye Contact: flush with cool water, like any non-hazardous solid

Skin Contact: if skin is irritated from handling product, wash thoroughly with soap and water, and wear protective gloves. Seek medical attention if condition persists.

Inhalation: None expected

Ingestion: Seek medical attention if a considerable amount has been swallowed.

Spills: Not applicable.

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

Warning: KEEP PACKAGING CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY.

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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 at 1000 hours ¹
Freeze/Thaw Resistance	ASTM E2485 Method B	10 cycles	No deleterious effects ¹ at 60 cycles
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
Water Vapor Transmission	ASTM E96 Method B	Measure, greater than 10 perms	Water vapor permeable, greater than 35 perms (2002 ng/Pa·s·m ²)
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 (adhesive, plank, and topcoat)	ASTM E84	Flame Spread: ≤ 25 Smoke Developed: ≤ 450	Flame Spread: 0 Smoke Developed: 0
Radiant Heat Ignition ²	NFPA 268	No ignition during the 20 minute test period	No ignition
Multistory Flame Spread ²	NFPA 285	Complies with NFPA 285 Acceptance Criteria	Pass (qualifies for use on noncombustible construction)
Fire Resistance ²	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.

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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