



STRUCTURE BOND™ Foam Adhesive

UPDATE

December 22, 2022

Make sure that you have an up-to-date technical data sheet in hand by consulting our website: techniseal.com
U.S.A. and Canada: dial 1 800 465-7325
Others: dial (514) 523-8324 (Canada)

APPLICATIONS

- Pavers
- Concrete
- Bricks
- Porcelain
- Natural Stone
- Wood / plywood
- Composite materials
- Drywalls
- Steel
- Metal
- Aluminum
- PVC
- Vinyl
- Fiber glass

PROPERTIES

- Super-strength hardscape foam adhesive
- Developed for the construction industry
- Super quick and easy application with gun
- Precise delivery - No mess, no waste
- Adjustable bead size
- Sets in 8 minutes*

*Set time will vary according to air moisture

DESCRIPTION

Structure Bond™ is an innovative super-strength foam adhesive that bonds a wide range of construction products. Structure Bond Gun allows for a precise adhesive delivery with a single pull of the trigger that stops as soon as you let go. It requires no pumping, cutting or puncturing of cartridge nozzles. The gun is easily cleaned with convenient cleaner cartridge available from Techniseal. Application time is up to 50% faster than with conventional tube adhesives. Materials are bonded in just 8 minutes and adhesive is fully cured within 24 hours. Structure Bond™ is made from high-quality modified polyurethanes. Its adhesive strength is unmatched among all types of polyurethane adhesives. It also has an

excellent long-term resistance to weathering, diluted acids and caustic solutions.

DIRECTIONS

BEFORE YOU BEGIN

Before proceeding with the installation, make sure you have an up-to-date technical data sheet available at techniseal.com. **ALWAYS TEST** on a small hidden area to ensure compatibility before use. **For industrial use only.** ALWAYS wear gloves and safety glasses when using this product.

Preparation:

- Protect floor.
- Remove all particles, dust and grease from the surface to be bonded.
- A faster cure can be obtained by moistening the substrates with a light water mist.
- Shake canister vigorously at least 20 times before each use.

Necessary tools:

- Structure Bond™ Gun (sold separately)
- Structure Bond™ Cleaner

Note: Complete curing will take approximately 24 hours. For a speedier curing, lightly moisten the substrates.

APPLICATION

1. Remove the protective cap and screw onto the Structure Bond gun.
2. Apply a bead of adhesive along the horizontal and vertical sections to be bonded. Bead size can be adjusted by turning the adjustment dial on the gun.
3. Wait a few seconds and bond both pieces together by pressing slightly. No need to twist.
4. Remove excess foam immediately. Remove any adhesive at the tip of the gun. Dried adhesive at the tip could make the gun shoot sideways instead of straight. See Cleaning section for instructions.

Note: Before putting the first can on a new gun, open the valve slightly and pull the trigger. A small amount of air may be trapped. **For best results**, always work with the canister in a vertical position and keep the valve pointed downwards.

AFTER EACH USE OF THE STRUCTURE BOND GUN

If there is still product in the container:

Close the valve of the Structure Bond Gun and leave the container on the gun until the next job.

If the container is empty:

Remove the container from the gun to avoid the product from drying and clogging the gun. This may render the gun unusable.

Then, screw a new container of adhesive to the gun and continue using it if necessary. If gun is to be stored away, pull the trigger a few seconds to make sure the gun is filled with the new adhesive, which will prevent it from drying.

For optimal performance, Techniseal recommends screwing a container of Structure Bond cleaner to the gun and pulling the trigger to clean the gun thoroughly, before adding a new container of adhesive.

CURING

Adhesive will be tack free within 8 minutes. Fully load bearing after 24 hours.

CLEANING

Remove excess foam immediately. Ensure surface is acetone-resistant before cleaning. Cured foam can only be removed mechanically. To clean the Structure Bond Gun, use Structure Bond Gun Cleaner from Techniseal. The cleaner can also be used to clean spills.

YIELD

A 1 3/8" bead will yield up to 600 ft..

APPLICATION TEMPERATURE

32 °F to 95 °F

TYPICAL PHYSICAL PROPERTIES

PROPERTIES	TEST METHOD	TYPICAL VALUES
Composition		Polyurethane Foam
Fire Class	DIN 4102	B3
Fire Resistance	EN 1365-1:1999	Pass
Limits Canister Temperature		50 °F to 86 °F
Limits Ambient Temperature		41 °F to 95 °F
Density		1.25 to 1.87 lb/ft ³ 20 to 30 kg/m ³
Open Time	1.25" in width at 73 °F and 50% RH	8 minutes
Tack Free Time	1.25" in width at 73 °F and 50% RH	8 minutes
Cutting Time	1.25" in width at 73 °F and 50% RH	24 hours
Loading Time		24 hours
Tensile Strength	DIN 53455	10 000 kPa 1450 psi
Thermal Conductivity		40 mW / m·K 0.023 BTU/hr.ft.°F
Temperature Resistance Short Term		-40 °F to 266 °F
Temperature Resistance Long Term		-40 °F to 194 °F

STORAGE

Do not puncture, incinerate or store above 120 °F. Protect from sunlight. Store can upright to avoid obstruction of the valve. Store in a well-ventilated place. Store locked up. Dispose of contents in accordance with local regulations.

PACKAGING

Product Code	Size	Units per box	Boxes per pallet
60050798	24 oz	12	84

WARNING

For more information and advice on the proper handling, storage, and disposal of this product, please refer to the latest version of its Safety Data Sheet (SDS). This official document contains physical, ecological, and other important information pertaining to the safe usage of this product. Visit www.techniseal.com or call 1-800-465-7325 to request or find an up-to-date version of this product's Safety Data Sheet (SDS).

KEEP OUT OF REACH OF CHILDREN

TRANSPORT

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LIMITED WARRANTY

Techniseal® warrants this Adhesive against manufacturing defects. As Techniseal® has no control over surface preparation and product application, results cannot be guaranteed. The Techniseal® warranty is limited only to the replacement of a product proven to be defective, and will never cover the cost of labour. A proof of purchase will be required for any claim. Notice : User should make sure that this product meets their needs by carrying out a test under anticipated conditions of use. In the event that no test was carried out, the warranty won't apply.



STRUCTURE BOND™ Gun Cleaner

UPDATE

December 18th, 2024

Make sure that you have an up-to-date technical data sheet in hand by consulting our website: techniseal.com
U.S.A. and Canada: dial 1 800 465-7325
Others: dial (514) 523-8324 (Canada)

APPLICATIONS

- Structure Bond Gun
- Any acid-resistant surface

DESCRIPTION

Cleans Structure Bond application gun and removes fresh, non-cured polyurethane foam adhesive.

DIRECTIONS

BEFORE YOU BEGIN

Before using this cleaner, make sure you have an up-to-date technical data sheet in hand by visiting techniseal.com.
ALWAYS TEST on a small hidden area to ensure compatibility before use.

Necessary tools:

- Spray nozzle

APPLICATION

CAUTION: Always wear eye protection, gloves and protective clothing. Use in a well-ventilated area. **Do not** smoke while using and **do not** use near an open flame.

To clean application gun:

1. Remove empty adhesive canister.
2. Screw on cleaner canister and pull trigger a few times to fill gun.
3. Allow cleaner to remain in the gun for approximately 15 minutes.
4. Pull trigger until cleaner comes out clear.
5. Remove cleaner canister from the gun.
6. Clean and dry screw thread on the canister.

To remove non-cured adhesive:

1. Attach a spray nozzle to the cleaner canister.
2. Press nozzle with finger and spray cleaner on the area to be cleaned.
3. Remove nozzle when finished.

WARNING: Dispense into a suitable container. Cleaner may damage some materials. **Always** test on scrap material prior to use.

STORAGE

Do not puncture, incinerate or store above 100°F (38°C). Protect from sunlight. Store can upright to avoid obstruction of the valve. Store in a well-ventilated place. Store locked up. Dispose of contents in accordance with local regulations.

PACKAGING

Product	Product Code	Color	Size	Units per box	Boxes per pallet
Structure Bond Cleaner	14200091	N/A	14 oz	12	72

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LIMITED WARRANTY

Manufacturer's liability is limited to the replacement of the product. A proof of purchase will be required for any claim.



Structure Bond PU PASTE Polyurethane Adhesive

UPDATE

January 22nd, 2025

Make sure that you have an up-to-date technical data sheet in hand by consulting our Web site: techniseal.com
U.S.A. and Canada: dial 1 800 465-7325
Others: dial (514) 523-8324 (Canada)

APPLICATIONS

- Overlays and pool copings, steps & wall caps, fire pits (up to 400°F (204°C)), retaining walls, etc.
- Adhering a wide range of construction materials such as pavers, concrete, stone, brick, masonry, porcelain, wood / plywood / OSB, treated and untreated lumber, drywall, fiberboard, cement board, rigid insulation, metal, steel, aluminum, PVC, vinyl, fiberglass as well as composite materials.

PROPERTIES

- High-strength, high-solids, low-VOC polyurethane adhesive that is stronger than conventional adhesives.
- Produces a permanent overnight bond to almost any substrate for faster project completion.
- Adheres to wet & frozen surfaces. Resists water and frost to permanently bond substrates together.
- Non-shrinking formulation ensuring proper coverage; suitable for gap-filling and shimming applications
- Can be used in a wide range of climates and conditions and will not freeze. Can be applied to frozen, frost-free lumber.
- Smooth extrusion for easy, user-friendly dispensing.
- Long open time offers flexibility in repositioning.
- High-strength - Up to 3 times the strength of conventional adhesive.
- Permanent bond in 24 hours.
- Fast curing for a quicker adhesion.
- Low odor, VOC compliant.
- Color : Light brown.

DESCRIPTION

This one-component premium polyurethane adhesive is professional grade. Permanently bonds nearly any material such as stone, brick, concrete, wood, metal and adheres to extreme surfaces. **Structure Bond PU PASTE** Polyurethane Adhesive also adheres strongly and resists multiple weather conditions.

Structure Bond PU PASTE Polyurethane Adhesive is a high-solids polyurethane that cures by reaction with atmospheric moisture. The drying time is related to the available moisture in the immediate environment.

Compliances

- Adhesive meets or exceeds all requirements of the American Plywood Association Specification AFG-01, Adhesive for Gluing Plywood to Wood Framing.
- ASTM D 3498 and ASTM C557.

DIRECTIONS

BEFORE YOU BEGIN

Before proceeding with the installation, make sure you have an up-to-date technical data sheet available at techniseal.com. **ALWAYS TEST** on a small hidden area to ensure compatibility before use. ALWAYS wear gloves and safety glasses when using this product.

SURFACE PREPARATION

Surfaces must be structurally sound, dry, clean and free of contaminants such as dirt, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, and membrane materials.

ON METAL SURFACES:

Remove scale, rust or other coatings to expose a bright white surface.

ON CONCRETE OR STONE, OR OTHER MASONRY SURFACES:

Clean by grinding, sandblasting or wirebrushing to expose a sound surface free of contamination and laitance.

ON WOOD SURFACES:

The surface must be clean and sound. Scrape away paint to bare wood.

PRIMING :

Structure Bond PU PASTE Polyurethane Adhesive bonds well to most substrates; however, it is the user's responsibility to check the adhesion of the cured adhesive on specific substrates.

APPLICATION

- Apply by caulking gun or trowel.
- Because of the high-strength and low-shrinkage provided by Structure Bond PU PASTE Polyurethane Adhesive, do not apply it as heavily as you would with a conventional adhesive. Cut the smallest possible opening in the spout to render the appropriate-sized bead and puncture the seal. Be certain to fill all gaps between materials.
- Materials may be repositioned without loss of adhesive strength up to one hour after application.
- When necessary, use mechanical fasteners to hold materials in place until adhesive has fully cured.

CLEANING

Remove uncured material immediately. Clean all tools and equipment immediately after use with a dry cloth; xylene, mineral spirits or acetone may also be used. Structure Bond Cleaner can be used. Cured material must be mechanically removed.

FOR BEST PERFORMANCE

- Wear gloves during application of adhesive; once cured, material cannot be removed.
- Not intended for applications with continuous submersion.
- If adhesion to a substrate is questionable, a test application must be conducted.

COVERAGE

- A 3/8" bead covers up to 38 feet per 29 oz. cartridge

BEAD SIZE IN (MM)	LINEAL FT/GAL (M/L)	LINEAR FEET PER 29 OZ. CARTRIDGE	LINEAR METER PER 858 ML CARTRIDGE
1/8 (3)	1,569 (126.2)	353	108
3/16 (5)	697 (56)	156	48
1/4 (6)	392 (31.5)	87	27
5/16 (8)	251 (20.2)	54	16
3/8 (10)	174 (14)	38	12

STORAGE

Store unopened containers in a cool, dry area away from direct sunlight. Storing at elevated temperatures will reduce shelf life. Structure Bond PU PASTE Polyurethane Adhesive remains flexible even when stored at freezing temperatures, but should be stored at room temperature for at least 24 hours before using.

VOC CONTENT

45 g/L or 0.38 lb/gal, less water and exempt solvents.

SHELF LIFE

1 year when properly stored

PACKAGING

Name	Product Code	Size	Units per box	Units per pallet
Structure Bond PU PASTE	142000048	29 fl. oz.	12	528

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LIMITED WARRANTY

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STICKYSTONE™ VERTICAL HARDSCAPE ADHESIVE

UPDATE

April 28th, 2025

Make sure that you have an up-to-date technical data sheet in hand by consulting our website: techniseal.com
U.S.A. and Canada: dial 1 800 465-7325
Others: dial (514) 523-8324 (Canada)

APPLICATIONS

- Ideal for above-grade, vertical veneering applications
- Indoor & outdoor applications
- Hardscape applications such as: outdoor kitchens, fireplaces, firepits, columns, mailboxes, doghouses, etc.
- Veneer materials include: manufactured stone, decorative stone, alternative masonry, natural stone, outdoor porcelain tile, outdoor glass, wood, composite materials, concrete pavers and a variety of substrates.
- Substrates include, but are not limited to: gypsum board/drywall, wood, pressure-treated wood, plywood, brick, concrete block, cement board.

PROPERTIES

- Superior initial green strength; resists sag
- Great for indoor & outdoor applications on a multitude of substrates
- Applies easily with applicator gun
- Resists UV and weathering effects
- Solvent-free, low odor, low VOC
- Single-component adhesive

DESCRIPTION

Techniseal® STICKYSTONE™ is a versatile quick-tack adhesive for manufactured stone, natural stone, outdoor porcelain tile, and a variety of substrates.

NECESSARY TOOLS

- STICKYSTONE™ Sausage Applicator Gun or equivalent

CAUTION

- Wear appropriate safety gears.
- Protect surrounding area from excess adhesive.
- Do not use on submerged or constantly wet surfaces.
- Not suitable for bonding polyethylene, polypropylene, Teflon® or nylon substrates. Do not use as a structural glazing adhesive, or for bonding plastics that are sensitive to stress cracking. Not recommended for prolonged exposure to water. Contact with bituminous or tar containing surfaces may lead to discoloration. Test on natural stone to ensure no discoloration.
- Do not use for structural applications

- Do not use for masonry structures or if attached to a structure mandated by code
- Product should be installed in accordance with the provisions of local building code. Always follow industry best practices appropriate for the application.

STICKYSTONE™ INSTALLATION INSTRUCTIONS

PREPARATION

- Dry-fit materials to ensure proper fit before applying adhesive
- Surfaces must be clean, dry, and free of frost, grease and contaminants
- Roughen non-porous surfaces for optimal adhesion
- StickyStone™ typically adheres to common construction substrates without primer. However, Techniseal always recommends that a mock-up or field adhesion test be performed on the actual materials being used on the installation to verify the need for a primer. If needed, please contact Techniseal Technical Service.
- Adhere to a small sample of materials to ensure a strong hold

APPLICATION

- Cut the tip of the applicator gun to the desired bead size.
- Remove clip to open foil, then position roll in sausage gun.
- Apply a bead of adhesive to one side of the substrate being bonded, ensuring that the quantity is sufficient for your application. For large areas, apply parallel beads approximately 3" (75 mm) apart to allow an aerated gap between the beads.
- STICKYSTONE™ is a moisture-curing adhesive. Therefore, it requires one surface to be porous to allow moisture to penetrate. Avoid adhesive patterns that would prevent contact with air moisture.
- In reference to the final installation, ensure that adhesive beads are oriented in a vertical way.
- For material heavier than 15 lb/sq. ft., apply additional beads of adhesive.
- Allow the bottom leveling row of material to cure for 15 minutes before installing additional rows to provide support for the rows above.
- Apply in temperatures above 32 °F (0 °C) to ensure proper curing.
- Immediately join the components together to bond.
- Working strength will typically form after 10 minutes.

CLEANING

- Immediately remove excess adhesive with xylene or mineral spirits.
- Once cured, the adhesive must be removed mechanically.

COVERAGE

Width x Depth inches (mm)	Linear Feet per 10 oz. Tube	Linear Feet per 20.3 oz. Sausage
1/4" x 1/4" (5 mm x 5 mm)	25	50
5/16" x 1/4" (8 mm x 6 mm)	20	40
3/8" x 5/16" (10 mm x 8 mm)	13	26
1/2" x 3/8" (15 mm x 10 mm)	8	16
3/4" x 1/2" (20 mm x 12 mm)	4	8
1" x 1/2" (25 mm x 15 mm)	3	6
1 1/4" x 1/2" (30 mm x 15 mm)	2	5

If beads are applied every 3 in, a 100 sq. ft. project would require 400 linear feet of product. Therefore, 1/4" x 1/4" beads are applied, the project requires 8 sausages (400 linear feet / 50 linear feet per sausage = 8)

STORAGE

Store STICKYSTONE in original, undamaged packaging in a clean, dry, protected location with temperatures between 40 to 110 °F (5 to 43 °C).

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PACKAGING

Name	Product Code	Color	Size	Units per box	Units per pallet
STICKYSTONE	60050572	Gray	600 ml (20.3 fl. oz.) sausages	15	990
	60050283	Gray	300 ml (10 fl. oz.) tubes	30	1350

TECHNICAL INFORMATION

Property	Test Method	Results
Tensile	ASTM D412	390 psi
Elongation	ASTM D412	420%
Tear Strength	ASTM D624	76 psi
Hardness – Shore A	ASTM C661	60
Skin Time	ASTM C679 (8.4)	10 – 14 minutes
Tack Free Time	ASTM C679	16 – 18 minutes
Lap Shear	ASTM C961	280 psi

LIMITED WARRANTY

Having no control over the use of the products, Techniseal® does not guarantee finished work. Replacement of any defective product shall be the buyer’s sole remedy under this warranty. A proof of purchase will be required for any claim. Before using this product, user shall determine the suitability of the product for its intended use, and user alone assumes all risks and liability whatsoever in connection therewith. User shall test product in a small inconspicuous area under projected conditions of use.