



## STRUCTURE BOND™ Foam Adhesive

60050798 (221-B01) / 24 oz



### UPDATE

**August 9, 2018**

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

### APPLICATIONS

- Pavers
- Concrete
- Bricks
- Porcelain
- Wood / plywood,
- Composite materials
- Drywalls
- Steel
- Aluminum
- PVC

### 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

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### BEFORE YOU BEGIN

Before proceeding with the installation, make sure you have an up-to-date technical data sheet available at [techniseal.com](http://techniseal.com). **ALWAYS TEST** on a small hidden area to ensure compatibility before use. **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. The foam output (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

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

## CLEANING

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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

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A 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 <sup>3</sup> |
| 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                         | 1450 psi                        |
| Thermal Conductivity              |                                   | 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 AND DISPOSAL

**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.

## SHELF LIFE

15 months – unopened container.

## SAFETY WARNINGS

**AEROSOLS EXTREMELY FLAMMABLE. MAY CAUSE FLASH FIRE. CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. HARMFUL IF SWALLOWED.** Carefully read back panel on container before use. In a fire or if heated, a pressure increase will occur and the container may burst or explode. **KEEP OUT OF THE REACH OF CHILDREN.** Keep away from heat, sparks and flame. Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120°F. Use only with adequate ventilation. Do not breathe vapor or mist. Do not swallow. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

If you are a contractor or industrial user, visit [techniseal.com](http://techniseal.com) to request the safety data sheet or call technical service at 1 800 465-7325.

## SHIPPING

LAND:

Transported in limited quantity; DOT-SP 12552

SEA:

UN1950; Aerosols; Class : 2.1; DOT-SP 12552

## PACKAGING

| Structure Bond | Product Code | Size  | Units per box | Boxes per pallet |
|----------------|--------------|-------|---------------|------------------|
|                | 60050798     | 24 oz | 12            | 84               |

## 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.