



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

For more information and advice on the proper handling and transportation of this product, please refer to the latest version of its Safety Data Sheet (SDS). 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).

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.