



Structure Bond PU PASTE

Polyurethane Adhesive

UPDATE

May 27th, 2026

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 204°C (400°F), retaining walls, artificial turf 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.

FOR ARTIFICIAL TURF INSTALLATION

Structure Bond PU PASTE is easy to apply and can be used for indoor or outdoor installations. It is a professional strength adhesive that provides a secure bond at the seams. It makes for a clean seaming application, with proper curing time. Structure Bond PU PASTE will also adhere artificial turf to unconventional surfaces, such as concrete and wood.

Use seam tape combined with Structure Bond PU Paste for durable, invisible seams on artificial grass. The tape provides dimensional stability, while our polyurethane adhesive provides bond strength and flexibility.

PREPARATION OF ARTIFICIAL TURF

Below is a concise, top-level summary of manufacturer-endorsed best practices for gluing artificial turf seams. Always follow turf manufacturer's recommendations.

- All turf pieces must be laid with the same grain direction before seaming.
- Edges should be factory-straight or freshly trimmed, with no frayed backing yarns left under the seam.
- Manufacturers require a fully compacted, stable base prior to gluing seams. Any base movement may shear the adhesive bond over time.
- Avoid gluing over wet substrate, loose fines, or standing moisture which may cause interference with the adhesive.

APPLICATION ON ARTIFICIAL TURF

- Best Practice: Cut nozzle tip at angle for a thick bead (3/8"). Structure Bond PU Paste should be spread evenly across the seam tape in a tight zig-zag pattern, from edge to edge while not exceeding them.
- Use a notched trowel or controlled bead technique.
- Keep glue on the backing only and fibers brushed away during lay in. Turf fibers contaminated with adhesive will mat down permanently and may create shiny or dark seam lines.
- Over application can cause bleed through into fibers; under application can lead to seam failure.
- After joining the seams precisely, apply consistent pressure (weighted boards, or rollers) while ensuring to eliminate air pockets.

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

TECHNICAL INFORMATION

PROPERTIES	VALUE
Viscosity, cps	Up to 1,000,000
Solids, %	90
Working or open time, hrs	Up to 1
Weight, lbs/gal (kg/L)	10.8 (1.30)
Flash point, °F (°C)	250 (121)
Freeze/thaw stability	Does not freeze
Shrinkage	None
Service temperature, °F (°C)	Up to 250 (121)

PACKAGING

NAME	Product Code	Size	Units per box	Boxes per pallet	UNITS PER PALLET
STRUCTURE BOND PU PASTE	142000048	29 FL. OZ.	12	44	528

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 labor. 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.