

# Multi-Purpose Construction Adhesive

## PACKAGING

- 313 ml cartridges
- 828 ml cartridges

## COLORS

Light brown

## YIELD

See page 3 for chart.

## STORAGE

Store in unopened containers in a cool, dry area away from direct sunlight. Storing at elevated temperatures will reduce shelf life.

Brick It Multi-Purpose Construction Adhesive remains flexible even when stored at freezing temperatures, but should be stored at room temperature for at least 24 hours before using .

## SHELF LIFE

1 year when properly stored

## VOC CONTENT

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

## DESCRIPTION

Brick It Multi-Purpose Construction Adhesive is a high-strength, high-solids, low-VOC polyurethane adhesive that is stronger than conventional adhesives. It produces a permanent overnight bond to almost any substrate. It can be used in a wide range of climates and conditions.

## PRODUCT HIGHLIGHTS

- Low odor and low VOC formulation is safe to use in occupied indoor spaces
- Strong and versatile adhesion that permanently bonds together nearly any material
- High solids, nonshrinking formulation provides desired coverage without cracking or losing bond over time
- Provides a tenacious bond that is stronger than many substrates it joins together; up to 3 times the strength of conventional adhesives
- Provides permanent overnight bond for faster project completion
- Long open time offers flexibility in repositioning; user friendly
- Can be applied to frozen, frost-free lumber for on site versatility
- Broad service temperature range is suitable for use in hot and cold environments

## LOCATION

- Interior and exterior
- Above grade

## SUBSTRATE

- Most rigid building materials
- Treated and untreated lumber
- Brick
- Metal
- Concrete
- Masonry
- Plywood / OSB
- Fiberboard
- Cement board
- Rigid insulation

**Technical Data**

**Composition**

Brick It Multi-Purpose Construction Adhesive is a high-solids polyurethane elastomer that cures by reaction with atmospheric moisture.

**Compliances**

- Adhesive meets or exceeds all requirements of the American Plywood Association Specification AFG-01, Adhesive for Gluing Plywood to Wood Framing.
- FHA Bulletin UM-60
- ASTM D 3498

**Typical Properties**

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

**Test Data**

**LAP SHEAR**

PROPERTY	RESULTS PSI (MPA)	COMMENTS
<b>Chemlite to plywood</b>	341 (2.35)	Plywood failure
<b>Kynar to plywood</b>	340 (2.34)	MasterSeal P 173 on Kynar
<b>Textured polyurethane to plywood</b>	240 (1.65)	32 minutes tack time

**Test Data**

**ADHESIVE STRENGTH CHART**

SUBSTRATE	PSI (MPA)	
	24 hrs	7 days
<b>Plywood to Douglas fir</b>	541 (3.73)	858 (5.91)
<b>Plywood to treated lumber</b>	861 (5.93)	1,000 (6.89)
<b>Metal to Douglas fir</b>	313 (2.16)	313 (2.16)
<b>Foam to foam*</b>	37 (0.25)	37 (0.25)
<b>Oriented strandboard to Oriented strandboard (wet)</b>	354 (2.44)	544 (3.75)
<b>Wet Douglas fir to metal</b>	217 (1.50)	313 (2.16)
<b>Frozen Douglas fir to frozen Douglas fir</b>	360 (2.48)	828 (5.70)
<b>Plywood to F.R.P.</b>	100 (0.69)	222 (1.53)

Note: Average data is from 10 specimens. Wet lumber is from overnight soak.

\*Foam tears apart at 37 psi (0.25 MPa).

Test results are typical values obtained under laboratory conditions. Reasonable variations can be expected.

**HOW TO APPLY**

**SURFACE PREPARATION**

1. Surfaces must be structurally sound, dry, clean, and free of dirt, moisture, 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**

Brick It Multi-Purpose Construction 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**

1. Apply by caulking gun or trowel.
2. Wearing gloves during application is highly recommended. Once material has cured it cannot be removed.
3. Because of the high strength provided by Brick It Multi-Purpose Construction Adhesive, do not apply it as heavily as you would a conventional adhesive. Cut the smallest possible opening in the spout to render the appropriate-sized bead. Be certain to fill all gaps between materials.
4. Materials may be repositioned without loss of adhesive strength up to one hour after application.
5. When necessary use mechanical fasteners to hold materials in place until adhesive has fully cured.

## Yield

BEAD SIZE IN (MM)	LINEAL FT/GAL (M/L)
<b>1/8 (3)</b>	355.78
<b>3/16 (5)</b>	158.04
<b>1/4 (6)</b>	88.88
<b>5/16 (8)</b>	56.9
<b>3/8 (10)</b>	39.45

### CURING

Brick It Multi-Purpose Construction Adhesive forms a firm set in 1–2 hours, and a tenacious bond overnight. Cure time varies with temperature, humidity, and the porosity of the materials joined.

### CLEAN UP

Clean all tools and equipment immediately after use with a dry cloth; Xylene, mineral spirits or acetone may also 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.
- Make certain the most current versions of product data sheet and SDS are being used; call Customer Service (1(631)244-3993) to verify the most current versions.
- Proper application is the responsibility of the user.

### HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting [www.brickit.com](http://www.brickit.com) or e-mailing your request to [customerservice@brickit.com](mailto:customerservice@brickit.com) or calling 1(631)244-3993. Use only as directed. **For medical emergencies call your local Emergency Services**

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**LIMITED WARRANTY NOTICE**

Brick It warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control.

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