

COVERAGE

A 10 fl. oz. cartridge will extrude approximately 30.6 ft. (9.3 m) of a ¼" (6 mm) diameter bead.

DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun, tool to puncture cartridge seal, plant mister bottle containing water.

Safety Precautions:

Wear gloves to avoid skin contact. Cured adhesive on bare skin will not come off immediately with washing and may cause skin to darken. Cured adhesive and discoloration will come off of skin in about 3 days.

Preparation:

Use above 41°F (5°C). For easier application, ensure the product temperature is 59°F (15°C) or higher. Surfaces must be clean and free of frost, standing water, grease, dust and other contaminants. Pre-fit all materials and protect finished surfaces. Cut nozzle at a 45° angle to required opening, usually ¼ inch or wider. Puncture the inner seal of the cartridge. The foil seal must be completely opened using a tool of similar size as the opening. Be very careful not to allow PL Premium Fast Grab to cure on a finished surface.

Application:

Apply adhesive to one surface of the material being bonded. Press the surfaces firmly together within 20 minutes. Materials may be repositioned within 20 minutes after applying the adhesive. If bonding two non-porous surfaces (such as foam, metal and fiberglass) or under very dry conditions (less than 30% relative humidity), add water in the form of a very light or atomized spray from a plant mister bottle to the extruded adhesive. The repositioning time will then be reduced to less than 15 minutes. Use mechanical support for 24 hours while the adhesive cures. Cure time is dependent upon temperature, humidity, porosity of substrate and amount of adhesive used. Low temperature and humidity will slow cure time. When bonding EPS and XPS foam insulation, avoid cure and surface temperatures above 90°F (32°C).

Clean-up:

Clean tools and adhesive residue immediately with mineral spirits. Loctite® PL® Premium Fast Grab must be removed mechanically once cured.

STORAGE AND DISPOSAL

Not damaged by freezing. Store product at standard conditions which are defined as 72 ± 4°F (22 ± 2°C) and <50% relative humidity. After completion of work, seal cartridge nozzle tightly with aluminum foil. Wrap the foil tightly around the nozzle and seal it with tape. Applying petroleum jelly around the opening before sealing with aluminum foil can create a more airtight seal. Product cures with exposure to moisture. Use an approved hazardous waste facility for disposal.

LABEL PRECAUTIONS

WARNING: HARMFUL IF INHALED. EYE, SKIN AND RESPIRATORY IRRITANT. MAY CAUSE SKIN AND RESPIRATORY SENSITIZATION.

WARNING: Contains methylene diisocyanate (MDI). Individuals with lung or breathing problems or prior sensitization to isocyanates should not use this product. Avoid breathing vapors. Avoid contact with eyes and skin. Prolonged or repeated exposure may cause dermal or respiratory sensitization, effects may be permanent. Gloves recommended. **FIRST AID:** If swallowed, call a physician Poison Control Center immediately. Do not induce vomiting. For eye contact flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. If inhaled, move to fresh air. If symptoms develop or persist, get immediate medical attention. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

*LIMITED WARRANTY: User shall determine suitability of product for use and assumes all risk. Except as described in the No Call Back Limited Warranty, the sole and exclusive remedy is a refund of the purchase price or replacement of the product. For warranty service and details about the No Call Back Limited Warranty, call 1-800-624-7767 or visit loctiteproducts.com. You may also have other rights which vary from state to state.

TECHNICAL DATA

Typical Uncured Physical Properties:		Typical Application Properties	
<u>Color:</u>	Grey	<u>Application Temperature:</u>	The adhesive should be above 41°F (5°C) and below 95°F (35°C) for application
<u>Appearance:</u>	Thick paste	<u>Odor:</u>	Minimal
<u>Base:</u>	Polyurethane	<u>Open Time:</u>	20 minutes*
<u>Viscosity:</u>	18,000 cps	<u>Repositioning Time:</u>	15-20 minutes*
<u>Specific Gravity:</u>	1.30	<u>Clamping Time:</u>	24 hours
<u>VOC Content:</u>	1.7% by weight (22 g/L)	<u>Cure Time:</u>	24 to 48 hours* at 78°F (25°C) and 50% RH
<u>Shelf Life:</u> Stored at standard conditions	12 months from date of manufacture (unopened)	*Time is dependent upon temperature, humidity, porosity of substrate and amount of adhesive used	
<u>Lot Code Explanation:</u>	3L3028HP11 0 = Last Digit of Year of Manufacture 028 = Day of Manufacture based on 365 days per year For example: 3028 = January 28, 2013	<u>Clean Up:</u>	Clean up uncured adhesive residue with mineral spirits. Scrape away cured adhesive using a sharp-edged tool.

Typical Cured Performance Properties

<u>Color:</u>	Grey	<u>Water Resistance:</u>	Yes
<u>Cured form:</u>	Non-flammable, hard solid	<u>Specifications:</u>	<ul style="list-style-type: none"> ▪ ASTM D 3498 ▪ APA AFG-01 ▪ ASTM C 557 ▪ FHA Bulletin UM-60a. ▪ Green Guard Certified ▪ Green Guard Certified for Children & Schools
<u>Service Temperature:</u>			
Long Term:	0°F (-18°C) to 160°F (71°C)		
Short Term:	0°F (-18°C) to 250°F (121°C)		
<u>Compression Shear Strength, ASTM D3498:</u> Douglas Fir to Douglas Fir plywood			
Dry Lumber Bonding	809 psi (5.6N/mm ²)		
Wet Lumber Bonding	671 psi (4.6 N/mm ²)		
Frozen Lumber Bonding	683 psi (4.7 N/mm ²)		
Gap Filling	631 psi (4.4 N/mm ²)		
Moisture Resistance	867 psi (6.0 N/mm ²) no delamination		
<u>Bond Strength Development* @ 73°F (23°C):</u> Douglas Fir to Douglas Fir plywood			
6 hours cure	360 psi (2.5 N/mm ²)		
8 hours cure	618 psi (4.3 N/mm ²)		
16 hours cure	706 psi (4.9 N/mm ²)		
24 hours cure	862 psi (5.9 N/mm ²)		

Stone Bonding: Compression Shear Strength:

Granite (unpolished) to Douglas fir plywood (7 day cure)	865 psi (6.0 N/mm ²)
Marble (unpolished) to Douglas fir plywood (7 day cure)	950 psi (6.6N/mm ²)
Granite to Granite (unpolished, 7 day cure followed by 24 hours water immersion)	658 psi (4.5 N/mm ²)
Marble to Marble (unpolished, 7 day cure followed by 24 hours water immersion)	423 psi (2.9 N/mm ²)

Compression Shear Strength to Various Substrates:

OSB to expanded cellular PVC (24 hour cure)	365 psi (2.5 N/mm ²) Wood failure
PVC trim molding to pine (24 hour cure)	624 psi (4.3 N/mm ²)
Fiber cement to Douglas Fir plywood (7 day cure)	389 psi (2.7 N/mm ²) Substrate failure
Fiber cement to Douglas Fir plywood (14 day cure followed by water immersion and drying)	380 psi (2.6 N/mm ²) Wood failure

Tensile Shear Strength (Lap Shear Strength):

Douglas Fir Plywood to stainless steel	777 psi (5.4 N/mm ²) Wood failure
Douglas Fir Plywood to hot galvanized steel	665 psi (4.6 N/mm ²) Wood failure