



TECHNICAL DATA SHEET



PL Premium® ADVANCED™
Polyurethane Construction
Adhesive

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DESCRIPTION

Loctite® PL Premium® ADVANCED™ is a revolutionary construction adhesive that provides superior results and is safe to use. It may be used inside or outside and will last as long as the surface it joins together. PL Premium® ADVANCED™ is 100% polyurethane and is 3 times stronger than traditional construction adhesives. It has 4 times the Initial Grab than our Original PL Premium® Formulation, is still repositionable and is virtually VOC free.

RECOMMENDED FOR:

Bonds most common construction materials such as wood, treated wood, hardwood flooring, concrete, stone, marble, slate, masonry, brick, foam insulation of all sorts, carpets, metal, lead, cement-based products, ceramic, fiberglass, drywall and mirrors.

NOT RECOMMENDED FOR:

- Polystyrene Tub Surrounds
- Water submersion applications
- Polystyrene, polyethylene or polypropylene.
- Certain materials such as rubbers and plastics may have bonding difficulties. Test before use.

FEATURES & BENEFITS:



Feature	Benefits
4x more Instant Grab than Original PL® Premium Construction Adhesive.....	Compared to Original Formula, can hold objects 4x the weight and no bracing is required
Virtually VOC Free.....	< 2 % by weight
Meets and exceeds APA AFG-01 specs.....	Can be applied directly to wet, frozen or treated lumber
High Strength.....	Stronger than many substrates it joins together; Up to 3 times the strength of conventional adhesives
Water resistant.....	Can be used outdoors; Ideal for humid areas
Low odour.....	No strong solvent odour; Excellent for indoor projects
Twice the coverage.....	Less adhesive required due to the expansion of the adhesive as it cures
Long open time.....	Extended repositioning time

Item #	Package	Size
1417170	Paper Cartridge	10 fl. oz.

COVERAGE

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

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Polyurethane Construction Adhesive
PL_CA_PREM_ADV

DIRECTIONS

Tools Typically Required:

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

Safety Precautions:

Wear gloves. Cured adhesive on bare skin will not come off immediately with washing and will cause skin to darken. Cured adhesive and discoloration will come off 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 5/16" or larger. 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® ADVANCED™ to cure on a finished surface.

Application:

Apply adhesive to one surface of the material being bonded. Press the surfaces firmly together. Materials may be repositioned within 20 minutes after applying the adhesive. If bonding two non-porous surfaces (such as foam, metal and fiberglass), 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.

Clean-up:

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

STORAGE AND DISPOSAL

Not damaged by freezing. 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

MAY IRRITATE EYES AND SKIN. Do not get in eyes, on skin or clothing. May cause allergic skin and respiratory reaction. May stain skin. Do not swallow or inhale. **KEEP OUT OF REACH OF CHILDREN.** Wear protective gloves. **FIRST AID TREATMENT:** Contains methylene diisocyanates. If swallowed, call Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse well with water for at least 15 minutes. If on skin, do not peel. If inhaled, move to fresh air.

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.

TECHNICAL DATA

Typical Uncured Physical Properties:		Typical Application Properties	
<u>Color:</u>	Grey	<u>Application Temperature:</u>	Apply above 41°F (5°C)
<u>Appearance:</u>	Thick paste	<u>Open Time:</u>	20 minutes
<u>Base:</u>	Polyurethane	<u>Dry Time:</u>	24 to 48 hours 78°F @ (25°C) and 50% RH Cure time is dependent upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Viscosity:</u>	18,000 cps	<u>Odor:</u>	Minimal
<u>Specific Gravity:</u>	1.30	<u>Clamping Time:</u>	24 hours
<u>VOC Content:</u>	22 g/L (1.7% by weight)	<u>Clean Up:</u>	Clean up uncured adhesive residue with mineral spirits. Scrape away cured adhesive using a sharp-edged tool.
<u>Shelf Life:</u>	12 months from date of manufacture (Unopened)		

Lot Code Explanation: 3L0028HP11

0 = Last Digit of Year of Manufacture
028 = Day of Manufacture based on
365 days per year

For example:
0028 = January 28, 2010

Typical Cured Performance Properties

<u>Color:</u>	Grey	<u>Water Resistance:</u>	Yes
<u>Cured form:</u>	Non-flammable, rubbery solid	<u>Specifications:</u>	<ul style="list-style-type: none">▪ APA AFG-01▪ ASTM D 3498▪ ASTM C 557▪ FHA Bulletin UM-60.
<u>Service Temperature:</u>		<u>Tensile Shear Strength:</u>	
Long Term:	0°F (-18°C) to 60°F (71°C)	Wood (SPF)	220 psi (1.5 N/mm ²)
Short Term:	0°F (-18°C) to 250°F (121°C)	OSB	300 psi (2.1 N/mm ²)
		Fiber Cement Board	230 psi (1.6 N/mm ²)
		Galvanized Steel	350 psi (2.4 N/mm ²)
		FRP	370 psi (2.6 N/mm ²)
		PVC Trim	490 psi (3.4 N/mm ²)