



TECHNICAL DATA SHEET

LEPAGE. **PL® Premium** **Polyurethane Construction** **Adhesive**

Henkel Canada Corporation
Professional and Consumer Adhesives
Mississauga, ON L5T 3A5
Phone 1-800-624-7767
Fax (440) 937-7067
www.henkel.com www.lepageproducts.com



DESCRIPTION

LePage® PL® Premium 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. Since the bonding strength of PL® Premium is so strong, it offers twice the coverage of conventional adhesives therefore much less adhesive is required to complete projects. It is also waterproof, paintable and cures even in cold temperatures. Ideal for sub floor installations.

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
Water resistant.....	Can be used outdoors, ideal for humid areas
Low odour.....	Excellent for indoor projects
Twice the coverage.....	Less adhesive required
Long open time.....	Extended repositioning time
Non-shrinking.....	Does not crack or lose bond
Paintable.....	Blends with surroundings

Item #	Package	Size
393971	Paper Cartridge	310 mL
393970	Paper Cartridge	850 mL

COVERAGE

- A 310 mL cartridge will extrude approximately 11 m (36 ft) of a 6 mm (1/4") diameter bead
- A 850 mL cartridge will extrude approximately 30 m (98 ft) of a 6 mm (1/4") diameter bead

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 discolouration will come off in about 3 days.

Preparation:

Use above 5°C (40°F). 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 desired bead size and puncture inner seal. Be very careful not to allow PL® Premium 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 45 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 30 minutes. Use mechanical support for 24 hours while the adhesive cures.

Clean-up:

Clean tools and adhesive residue immediately with LePage Contact Cement Cleaner or mineral spirits. PL® Premium must be removed mechanically once cured. Solvents have little effect on cured PL® Premium.

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.

PRECAUTIONS

FUMES MAY BE HARMFUL. Do not breathe fumes. Use only in a well ventilated area.
KEEP OUT OF REACH OF CHILDREN.
FIRST AID TREATMENT: Contains petroleum distillates. If swallowed, call Poison Control Center or doctor immediately. If breathed in, move person into 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>Colour:</u>	Brown	<u>Application Temperature:</u>	Apply above 5°C (41°F)
<u>Appearance:</u>	Thick paste	<u>Open Time:</u>	30 minutes
<u>Base:</u>	Polyurethane	<u>Dry Time:</u>	24 to 48 hours @ 25°C (78°F) and 50% RH Cure time is dependent upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Viscosity:</u>	550,000 cps @ 5 RPM and 75°F (24°C)	<u>Odour:</u>	Minimal
<u>Flash Point:</u>	121°C (250°F)	<u>Clamping Time:</u>	24 hours
<u>Specific Gravity:</u>	1.26	<u>Clean Up:</u>	Clean up uncured adhesive residue with mineral spirits. Scrape away cured adhesive using a sharp-edged tool.
<u>% Solids:</u>	90% by weight		
<u>VOC Content:</u>	45 g/L (4% by weight)		
<u>Shelf Life:</u>	12 months from date of manufacture (unopened)		
<u>Lot Code Explanation:</u>	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>Colour:</u>	Brown	<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>			
Long Term:	-18°C (0°F) to 71°C (160°F)		
Short Term:	-18°C (0°F) to 121°C (250°F)		
		<u>Bond Strength:</u>	See charts below.

American Plywood Association AFG-01 Test Results

APA AFG-01	Shear Strength		Compliance Status
	Average (pounds)*	Minimum Requirements (pounds)*	
<u>Test A (Wet Lumber)</u>			
On Douglas Fir	785	225	Passed
On Southern Pine	593	225	
<u>Test B (Frozen Lumber)</u>			
On Douglas Fir	837	150	Passed
On Southern Pine	762	150	
<u>Test C (Dry Lumber)</u>			
On Douglas Fir	890	225	Passed
<u>Moisture Resistance</u>			
On Douglas Fir (No delamination)	911	225	Passed
Oxidation Resistance	Pass	100% - No sign of fracture when bent.	Passed

* Bond area = 1.5 in²

Additional Bond Strength Data

Substrates	Shear Strength (psi)	
	24 hours	7 days
Plywood to Douglas Fir	541	858
Plywood to Treated Lumber	861	1000
Metal to Douglas Fir	313	313
Foam to Foam	37*	37*
OSB to OSB (wet)	354	544
Wet Douglas Fir to Metal	217	313
Frozen Douglas Fir to Frozen Douglas Fir	360	828
Plywood to F.R.P	100	222

*Resulted in foam failure