



# TECHNICAL DATA SHEET

## PL<sup>®</sup> Premium<sup>®</sup> Fast Grab<sup>™</sup> Construction Adhesive

**Description:** LePage PL Premium Fast Grab is revolutionary 100% moisture curing polyurethane 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 Fast Grab is 8 times stronger than ordinary solvent based construction adhesives during initial 24 hour cure. It has high initial tack making it ideal for use on vertical surfaces with less bracing required and is repositionable. PL Premium Fast Grab is virtually VOC free.

**Available As:**

Item #	Size	Package
1417396	295 ml	Paper Cartridge

**Features & Benefits:**

- 4X More Instant Grab than Original PL Premium
- 8X Stronger than Ordinary Solvent Based Adhesives
- Long Open Time
- Extended Repositioning Time
- Water Resistant
- Twice the Coverage
- Meets and Exceeds ASTM D3498 & APA AFG-01

**Recommended For:**

PL Premium Fast Grab bonds to most common construction materials such as wood, plywood, OSB, MDF, treated wood, hardwood flooring, concrete, stone, granite, marble, slate, masonry, brick, foam insulation of all sorts including EPS (expanded polystyrene foam), XPS (extruded polystyrene foam), and polysio (urethane) foam, carpets, metal, stainless steel, galvanized metal, lead, cement-based products, fiber cement panels, ceramic, fiberglass, drywall, rigid and cellular vinyl/PVC trim and molding and polyash trim.

**For Best Results:**

- Not for use on tub surrounds and other solid sheet goods made from rigid polystyrene
- Not for use in water submersion applications
- Not for use on polyethylene, polypropylene, flexible vinyl (FPVC)
- Not for use on polyethylene (PE) films that cover certain XPS or EPS foam insulation board
- Not for use on bitumen coated surfaces
- Certain materials such as rubbers and plastics may have bonding difficulties. Test before use.

**Coverage:**

For a 295 ml cartridge:

- A 6 mm (1/4") bead extrudes approximately 9.3 m (31 ft)
- A 9.5 mm (3/8") bead extrudes approximately 4.1 m (13.6 ft)



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## Typical Uncured Physical Properties:

Color:	Grey	
Appearance:	Thick paste	
Base:	Polyurethane	
Odor:	Minimal	
Specific Gravity:	1.30	
Flash Point:	93°C (200°F)	
Viscosity:	18,000 cps	
VOC Content:	1.7% by weight	CARB
	22 g/l	SCAQMD rule 1168
Shelf Life:	12 months from date of manufacture (unopened)	
Lot Code Explanation:	Example: 3L <b>4028</b> HP11	
Stamped on bottom plunger of cartridge	<b>4</b> = Last digit of year of manufacture <b>028</b> = Day of manufacture based on 365 days in a year So 4028 = January 28, 2014	

## Typical Application Properties:

Application Temperature:	Adhesive should be above 5°C (41°F) and 35°C (95°F)	
Open Time:	20 minutes*	@ 25°C (78°F) and 50% R.H.
Repositioning Time:	15 to 20 minutes*	@ 25°C (78°F) and 50% R.H.
Clamping Time:	24 hours	
Cure Time:	24 to 48 hours*	@ 25°C (78°F) and 50% R.H.
	*Times are dependent on temperature, humidity, porosity of surface bonded and amount of adhesive used	

## Typical Cured Performance Properties:

Color:	Grey	
Cured Form:	Non-flammable rubbery solid	
Service Temperature:	-18°C (0°F) to 71°C (160°F)	Long Term (Continuous)
	-18°C (0°F) to 121°C (250°F)	Short Term (Intermittent)
Water Resistant:	Yes	
Compression Shear Strength:	ASTM D3498	
Dry Lumber:	5.6 N/mm <sup>2</sup> (809 psi)	
Wet Lumber:	4.6 N/mm <sup>2</sup> (671 psi)	
Frozen Lumber:	4.7 N/mm <sup>2</sup> (683 psi)	
Gap-Filling:	4.4 N/mm <sup>2</sup> (631 psi)	
Moisture Resistance:	6.0 N/mm <sup>2</sup> (867 psi) No delamination	
Bond Strength Development:	@ 23°C (73°F) Douglas Fir to Douglas Fir Plywood	
6 hours cure:	2.5 N/mm <sup>2</sup> (360 psi)	
8 hours cure:	4.3 N/mm <sup>2</sup> (618 psi)	
16 hours cure:	4.9 N/mm <sup>2</sup> (706 psi)	
24 hours cure:	5.9 N/mm <sup>2</sup> (862 psi)	
Compression Shear Strength:		
Granite (unpolished) to Douglas Fir Plywood:	6.0 N/mm <sup>2</sup> (865 psi)	7 day cure
Marble (unpolished) to Douglas Fir Plywood:	6.6 N/mm <sup>2</sup> (950 psi)	7 day cure
Granite to Granite (unpolished):	4.5 N/mm <sup>2</sup> (658 psi)	7 day cure + 24 hrs water immersion
Marble to Marble (unpolished):	2.9 N/mm <sup>2</sup> (423 psi)	7 day cure + 24 hrs water immersion



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## Compression Shear Strength:

OSB to Expanded cellular PVC:	2.5 N/mm <sup>2</sup> (365 psi) Substrate failure	24 hour cure
PVC trim molding to Pine:	4.3 N/mm <sup>2</sup> (624 psi)	24 hour cure
Fiber cement to Douglas Fir plywood:	2.7 N/mm <sup>2</sup> (389 psi) Substrate failure	7 day cure
Fiber cement to Douglas Fir plywood:	2.6 N/mm <sup>2</sup> (380 psi) Substrate failure	14 day cure + 24 hrs water immersion
Fiberglass (dull side) to Maple:	4.2 N/mm <sup>2</sup> (614 psi)	7 day cure

## Tensile Shear Strength:

Douglas Fir plywood to Stainless steel:	5.4 N/mm <sup>2</sup> (777 psi) Substrate failure
Douglas Fir plywood to Hot galvanized steel:	4.6 N/mm <sup>2</sup> (665 psi) Substrate failure

## Specifications:

Meets and exceeds the following specifications:

- ASTM D3498
- APA AFG-01
- ASTM C557
- GreenGuard Certified

## Directions:

### Tools Typically Required:

Utility knife, caulking gun, tool to puncture cartridge seal, spray mist water bottle.

### 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:

Adhesive should be above be above 5°C (41°F). For easier application, ensure the product temperature is 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 joining the surfaces. If bonding two non-porous surfaces (such as 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 spray mist water 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 32°C (90°F).

### Clean-up:

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

## Storage & 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:

**CAUTION. IRRITANT. MAY IRRITATE EYES AND SKIN. MAY CAUSE SKIN AND RESPIRATORY SENSITIZATION.** Do not use if you have chronic lung or breathing problems or if you have ever had a reaction to isocyanates. Do not get in eyes, on skin or clothing. Do not swallow or inhale. Wear gloves. Wear appropriate respiratory protection for prolonged use. **KEEP OUT OF REACH OF CHILDREN.**

**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 breathed in, move person to fresh air.

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



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**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.

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Henkel Canada Corporation - Professional & Consumer Adhesives Headquarters – Mississauga, ON L5N 6C3  
[www.henkelna.com](http://www.henkelna.com)

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