



# TECHNICAL DATA SHEET

**LEPAGE**  
**PL® 400**  
**Sub-Floor & Deck Adhesive**

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



## DESCRIPTION

LePage® PL® 400 is an interior and exterior heavy-duty premium quality adhesive, designed for structural projects that require strength and durability. Ideal for installing sub-floors, exterior sheathing, siding and decking. It may be used under a variety of moisture and temperature conditions ranging from sub-freezing to elevated temperatures, dry or wet framing, and framing with frozen surfaces. Provides excellent flexibility to compensate for the different expansion rates of dissimilar materials. It is particularly effective when bonding irregular surfaces or bridging gaps between surfaces. PL® 400 forms a bond that cures stronger than the wood itself, bridges gaps and compensates for wood shrinkage. The elastomeric properties of PL® 400 help to reduce squeaky floors as it contributes to noise and vibration absorption. It does not support mold or bacterial growth.

## RECOMMENDED FOR:

Many common construction building materials in various combinations such as wood, fiberglass, drywall, fiberboard, hardboard, metal, concrete and masonry. Treated wood should be aged 3 to 6 months. PL® 400 can be used for all exterior projects, such as decks, fences and gazebos. It can also be used as a wind seal under the plate ground perimeter of foundations. For best results one surface should be porous.

## NOT RECOMMENDED FOR:

- Polystyrene foam board insulation or tub surrounds
- Mirrors
- Applications over hygroscopic salt-treated wood, such as zinc chloride treatments. These substances attract, absorb and retain moisture.
- Continuous water immersion
- Applications requiring temperature resistance greater than 60°C (140°F)
- Installation of tiles and floor coverings

## FEATURES & BENEFITS:

Feature	Benefits
Elastomeric.....	Eliminates squeaky floors
High grab.....	Minimizes nailing requirements
Eliminates nail pop-ups.....	Minimizes re-working
Low temperature application limit.....	Easy gunning outdoors in sub-zero temperatures
Bonds well to dry, wet, frozen or treated lumber.....	Eliminates drying and thawing the lumber before application; Works in all weather conditions.

Item #	Package	Size
10-01945-3 (790543)	Paper Cartridge	300 mL
10-01941-3 (526370)	Paper Cartridge	825 mL

## COVERAGE

**For a 300 mL cartridge:**

- A 6 mm (¼") bead extrudes approximately 9.5 m (31 ft) of adhesive.
- A 9.5 mm (3/8") bead extrudes approximately 4.2 m (14 ft) of adhesive.

**For a 825 mL cartridge:**

- A 6 mm (¼") bead extrudes approximately 26 m (85 ft) of adhesive.
- A 9.5 mm (3/8") bead extrudes approximately 11.6 m (38 ft) of adhesive.

## DIRECTIONS

### Tools Typically Required:

Utility knife, caulking gun, tool to puncture cartridge seal, hammer, flooring nails or screws.

### Safety Precautions:

Interior applications require ventilation to the outside during application and cure. Wear Gloves. Wash hands after use.

### Preparation:

Use above -17°C (0°F). Surfaces must be structurally sound, clean and free of foreign materials. Remove any ice or free-standing water. Pre-fit all materials and protect finished surfaces. Cut nozzle to desired bead size and puncture inner seal.

### Application:

Apply a continuous zigzag bead to all joists or studs. To laminate sheets to flat surfaces apply a continuous bead, 5 cm (2") in from the edge around perimeter of the panel and an "X" bead extending from corner to corner. Allow 2 mm (1/16") gaps between joints for expansion. Sub-floors must be nailed or screwed (both at the perimeter and at the intermediate joists) following proper installation methods. Apply the adhesive at a rate so that the materials can be positioned and fastened within 10 minutes. All projects may require support until adhesive has cured.

### Clean-up:

Clean tools and uncured adhesive residue immediately with LePage® Contact Cement Thinner / Cleaner or mineral spirits. Cured adhesive may be carefully cut away with a sharp-edged tool.

## STORAGE AND DISPOSAL

Not damaged by freezing. Store away from heat, flame and spark in a cool, well-ventilated area. Use an approved hazardous waste facility for disposal.

## PRECAUTIONS

**FUMES MAY BE HARMFUL AND MAY CATCH FIRE.** Do not breathe fumes. Do not smoke. Use only in a well ventilated area. Keep away from flames, such as a pilot light, and any object that sparks, such as an electrical motor. **KEEP OUT OF REACH OF CHILDREN. FIRST AID TREATMENT:** Contains toluene and petroleum distillates. If swallowed, call a Poison Control Centre or doctor immediately. If in eyes or on skin, rinse well with water. 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>	Tan	<u>Application Temperature:</u>	-17°C (0°F) to 40°C (104°F)
<u>Appearance:</u>	Thick Paste	<u>Open Time:</u>	10 minutes @ 25°C (78°F)
<u>Base:</u>	Synthetic Rubber	<u>Dry Time:</u>	24 to 72 hours @ 25°C (78°F) and 50% R.H. Dry time is dependent upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Solvent:</u>	Toluene / Heptane		
<u>Odour:</u>	Solvent (Use in a well-ventilated area)		
<u>Specific Gravity:</u>	1.21		
<u>Viscosity:</u>	250 Mcps @ 10 rpm		
<u>VOC Content:</u>	387 g/L (32% by weight)		
<u>Flashpoint:</u>	6.7°C (44°F)		
<u>Shelf Life:</u>	18 months from date of manufacture (unopened)		
<u>Lot Code Explanation:</u>	YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year  (Lot code stamped on bottom plunger of cartridge) For example: 09061 = 61 <sup>st</sup> day of 2009 = March 2, 2009		

**Typical Cured Performance Properties**

<u>Colour:</u>	Tan	<u>Paintable:</u>	Yes
<u>Cured Form:</u>	Non-flammable, rubbery solid	<u>Specifications:</u>	Meets and exceeds APA AFG-01 requirements
<u>Service Temperature:</u>	-40°C (-40°F) to 60°C (140°F)		
<u>Water Resistance</u>	Yes		

APA AFG-01 TESTS	Average (pounds)*	Minimum Requirements (pounds)*	Compliance Status
<u>Test A (Wet Lumber)</u> Douglas Fir	567	225	Passed
<u>Test B (Frozen Lumber)</u> Douglas Fir	158	150	Passed
<u>Test C (Dry Lumber)</u> Douglas Fir	480	225	Passed
<u>Moisture Resistance</u> Douglas Fir	488	225	Passed

\* Bond area = 1.5 in<sup>2</sup>