

Revision: 11/01/2022 Supersedes: 03/31/2020 Ref. #: 379047

PL® Premium® Construction Adhesive



DESCRIPTION

LePage® PL Premium® is a one component, polyurethane-based, moisture-curing adhesive which provides superior adhesion to most common construction materials. It is VOC compliant and contains no chlorinated solvents or water. 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. PL Premium® can be used for interior or exterior projects and is 3 times stronger than ordinary solvent-based construction adhesives during initial 24-hour cure. It is also water resistant, paintable, and cures even in cold temperatures. It is ideal for subfloor installations.

Available as:

Item #	Package	Size
1584230	Carded Squeeze Tube	118 mL (4 oz.)

FEATURES & BENEFITS

- Up to 3 times the strength of conventional adhesives during initial 24 hours
- Low VOC content
- Water resistant and can be used outdoors as well as in high humidity environments
- Broad service temperature range
- For indoor and outdoor use
- Meets and exceeds ASTM D3498 requirements
- Non-shrinking

RECOMMENDED FOR

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

LIMITATIONS

- Marine Applications
- Water submersion applications
- Tub surrounds and other solid sheet goods made from rigid polystyrene
- Polyethylene, polypropylene, polytetrafluoroethylene (PTFE), and flexible vinyl (FPVC)
- Polyethylene (PE) films that cover certain XPS or EPS foam insulation boards
- Bitumen coated surfaces
- *Certain natural stones such as limestone, travertine, and sandstone will have bonding difficulties
- Some materials such as rubbers, plastics, and exotic or composite wood may have bonding difficulties. Test before use
- Flexible sheet goods
- Areas of high heat such as around fireplace openings or for fire pit construction
- Pressure treated lumber must be well seasoned for at least 6 months in weather exposure

COVERAGE

For a 118 mL (4 oz.) squeeze tube:

A 6 mm (1/4") bead extrudes approximately 3.7 m (12.2ft)
 A 9.5 mm (3/8") bead extrudes approximately 1.7 m (5.4 ft)



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TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
Color:	Tan	Application Temperature:	Adhesive should be above 5°C (41°F) and below 35°C (95°F) for optimal performance
Appearance:	Thick paste		(Also see Cold Weather Application)
Base:	Polyurethane (Formaldehyde/ Asbestos free	Odor:	Aromatic/ Minimal
Viscosity:	555,000 cps	Open Time:	15-20 minutes*
Specific Gravity:	1.3	Repositioning Time:	30-45 minutes*
VOC Content:	<3 % by weight CARB	Clamping Time:	24 hours
	76 g/l SCAQMD	Cure Time**:	24 to 48 hours* at 25°C (78°F) and 50% RH
Shelf Life: 12 months from the date of manufacture (unopened)			
Lot Code Explanation: 19038		Clean Up:	Clean up uncured adhesive residue with
19 = Last two digits of the year of manufacture 038 = Day of manufacture based on 365 days per year Example: 19038 = February 7, 2019			mineral spirits. Scrape away cured adhesive using a sharp-edged tool.

^{*}Time is dependent upon temperature, humidity, porosity of substrate and amount of adhesive used.
** Cure time is significantly increased in cold temperatures and/or low humidity conditions

Typical Cured Performance Properties				
Color:	Tan	Service Temperature: -40°C (-40°	0°F) to 71°C (160°F)	
Cured form:	Non-flammable, rubbery solid	Applicable Specifications: • ASTM		
Water Resistance:	Yes, when fully cured	APA AFG-01ASTM C557		
	Strength, ASTM D3498:	Compression Shear Strength to Vari	ous Substrates:	
Douglas Fir to Douglas	Fir plywood			
Dry lumber Wet Lumber	4.4 N/mm² (638 psi) 2.8 N/mm² (404 psi)	OSB to expanded cellular PVC (24-hour cure)	1.8 N/mm² (263 psi) wood failure	
Frozen Lumber Gap Filling Moisture Resistance	5.3 N/mm² (773 psi) 3.2 N/mm² (468 psi) 4.0 N/mm² (585 psi)	PVC trim molding to pine (24-hour cure) Fiber cement to Douglas Fir plywood (7-day cure)	2.1 N/mm² (305 psi) 2.1 N/mm² (305 psi) substrate failure	
No delamination		Fiber cement to Douglas Fir plywood (14-day cure followed by water immersion and drying)	2.6 N/mm² (377 psi) wood failure	
	lopment @ 23°C (73°F):	Stone Bonding, Compression Shear	Strength:	
Douglas Fir to Douglas	Fir plywood			
6 hours cure	1.4 N/mm² (208 psi)	Granite (unpolished) to Douglas fir plywood (7-day cure)	3.2 N/mm² (467 psi)	
8 hours cure	1.9 N/mm² (279 psi)	Marble (unpolished) to Douglas fir plywood (7-day cure)	3.7 N/mm² (542 psi)	
16 hours cure	3.1 N/mm² (450 psi)	Granite to Granite (unpolished), 7-day cure followed by 24 hours water imme	2.6 N/mm² (371 psi) ersion	
24 hours cure	3.6 N/mm² (542 psi)	Marble to Marble (unpolished), 7-day cure followed by 24 hours water imme	2.1 N/mm² (305 psi) ersion	
Tensile Shear Streng	gth (Lap Shear Strength):			
Douglas Fir Plywood to stainless steel		590 psi (4.1 N/mm²) - Wood failure		
Douglas Fir Plywood to hot galvanized steel		512 psi (3.5 N/mm²) - Wood failure		



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Compression Shear Strength, APA AFG-01:					
(Bond area = 1.5 in^2)					
	Douglas Fir to Douglas Fir plywood	Southern Yellow Pine to Southern Yellow Pine			
Dry Lumber Bonding	890 lbs.	No data			
Wet Lumber Bonding	785 lbs.	593 lbs.			
Frozen Lumber Bonding	837 lbs.	762 lbs.			
Moisture Resistance	911 lbs.	No data			
Oxidation Resistance	Passed	Passed			

DIRECTIONS

Tools Typically Required:

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 skin in about 3 days.

Preparation:

To ensure positive adhesion it is recommended to use adhesive above 5°C (41°F). For easier application, ensure the product temperature is 15°C (59°F) 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. Be very careful not to allow PL Premium to cure on finished surfaces. Pierce inner seal with reverse end of cap.

Cold Weather Use:

Cold weather application is possible when ambient conditions are down to -7°C (19°F). Adhesive product must be kept above 7°C (45°F) during application and all bonding surfaces must be free of snow, ice, and frost prior to use. Extended cure times should be expected during cold weather conditions.

General Application:

Apply adhesive to one surface of the material being bonded. Press the surfaces firmly together within 15 to 20 minutes. Materials may be repositioned within 30 to 45 minutes after applying adhesive. If bonding two non-porous surfaces (such as foam, metal, or rigid 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. Follow same procedure if bonding large size sheet goods. 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) as this may cause cavitation of the foam. User is responsible for determining suitable and acceptable results for their intended project. Test before use.

Clean-up:

Clean tools and any uncured adhesive residue immediately with mineral spirits. Cured adhesive may be removed mechanically. Solvents have little to no effect on cured adhesive.

STORAGE & DISPOSAL

Not damaged by freezing. Store product at standard conditions which are defined as $22^{\circ}\text{C} \pm 2^{\circ}\text{C}$ ($72^{\circ}\text{F} \pm 4^{\circ}\text{F}$) and < 50% relative humidity. After completion of work, replace cap immediately. Product cures with exposure to moisture. Use an approved hazardous waste facility for disposal.



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LABEL PRECAUTIONS

CAUTION! POISON! FUMES MAY BE HARMFUL. 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 swallow. Do not breathe fumes. Use only in a well-ventilated area. Wear gloves. Wear appropriate respiratory protection for prolonged use. **KEEP OUT OF REACH OF CHILDREN.**

FIRST AID TREATMENT: Contains petroleum distillates. If swallowed, call Poison Control Centre or doctor immediately. If on skin, wash with plenty of water immediately. If hardened, do not peel. If breathed in, move person to fresh air.

Refer to the Safety Data Sheet (SDS) 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. Henkel recommends purchasers/users should test the products to determine acceptable quality and suitability for the intended use. All adhesive/sealant applications should be tested under simulated or actual end use conditions to ensure the adhesive/sealant meets or exceeds all required project specifications. Since assembly conditions may be critical to adhesive/sealant performance, it is also recommended that testing be performed on specimens assembled under simulated or actual production conditions. 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

This product is warranted by Henkel Corporation to be free from defects in materials when used as directed. Henkel's sole obligation shall be, at its option, to replace or refund the purchase price of product proven to be defective. Henkel makes no other warranty – express or implied – including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE and will not be liable for consequential or incidental damages. This Limited Warranty gives you specific legal rights, which vary from state to state. For warranty assistance, contact Henkel at 1.800.624.7767 M-F 9:00 am to 4:00 pm ET.



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