



TECHNICAL DATA SHEET

Revision: 11/01/2022
Supersedes: 03/18/2015
Ref. #: 387657



PL Premium® Fast Grab 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 surfaces 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 it is repositionable. PL Premium® Fast Grab is also virtually VOC free.

Available as:

Item #	Package	Size
1417396	Paper Cartridge	295 mL (10 oz.)

FEATURES & BENEFITS

- Up to 8 times the strength of conventional adhesives during initial 24 hours
- Low VOC content
- Fast Grab formula reduces bracing requirements
- Water resistant and can be used outdoors as well as in high humidity environments
- Long open time allows for extended repositioning time
- For indoor and outdoor use
- Full cure in 24 to 48 hours
- Meets and Exceeds ASTM D3498 & APA AFG-01

RECOMMENDED FOR

LePage® 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, 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 poly-ash 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, sandstone will have bonding difficulties
- Some materials such as rubbers and plastics may have bonding difficulties. Test before use
- Composite decking and lpe wood materials
- 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 295 mL (10 oz.) cartridge:

- A 6 mm (1/4") bead extrudes approximately 9.3 m (30.6 ft)
- A 9.5 mm (3/8") bead extrudes approximately 4.1 m (13.6 ft)



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TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Grey	<u>Application Temperature:</u>	Adhesive should be above 5°C (41°F) and below 35°C (95°F) for optimal performance
<u>Appearance:</u>	Thick paste	<u>Odor:</u>	Aromatic/ Minimal
<u>Base:</u>	Polyurethane (Formaldehyde/ Asbestos free)	<u>Open Time:</u>	20 minutes*
<u>Viscosity:</u>	1,800,000 cps	<u>Repositioning Time:</u>	15-20 minutes*
<u>Specific Gravity:</u>	1.30	<u>Clamping Time:</u>	24 hours
<u>VOC Content:</u>	1.7% by weight CARB 22 g/l SCAQMD	<u>Cure Time**:</u>	24 to 48 hours* at 25°C (78°F) and 50% RH
<u>Shelf Life:</u>	12 months from date of manufacture (unopened)	<u>Clean Up:</u>	Clean up uncured adhesive residue with mineral spirits. Scrape away cured adhesive using a sharp-edged tool.
<u>Lot Code Explanation:</u> HE9038R302YY 9 = Last digit of year of manufacture 038 = Day of manufacture based on 365 days per year Example: 9038 = February 7, 2019			

*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

<u>Color:</u>	Grey	<u>Service Temperature:</u>	-18°C (0°F) to 71°C (160°F)
<u>Cured form:</u>	Non-flammable, rubbery solid	<u>Applicable Specifications:</u>	- ASTM D3498 - APA AFG-01 - ASTM C557
<u>Water Resistance:</u>	Yes, when fully cured		
<u>Compression Shear Strength, ASTM D3498:</u> Douglas Fir to Douglas Fir plywood		<u>Compression Shear Strength to Various Substrates:</u>	
Dry Lumber	5.6 N/mm ² (809 psi)	OSB to expanded cellular PVC (24-hour cure)	2.5 N/mm ² (365 psi) wood failure
Wet Lumber	4.6 N/mm ² (671 psi)	PVC trim molding to pine (24-hour cure)	4.3 N/mm ² (624 psi)
Frozen Lumber	4.7 N/mm ² (683 psi)	Fiber cement to Douglas Fir plywood (7-day cure)	2.7 N/mm ² (389 psi) substrate failure
Gap Filling	4.4 N/mm ² (631 psi)	Fiber cement to Douglas Fir plywood (14-day cure followed by water immersion and drying)	2.6 N/mm ² (380 psi) wood failure
Moisture Resistance	6.0 N/mm ² (867 psi) No delamination		
<u>Bond Strength Development @ 23°C (73°F):</u> Douglas Fir to Douglas Fir plywood		<u>Stone Bonding, Compression Shear Strength:</u>	
6 hours cure	2.5 N/mm ² (360 psi)	Granite (unpolished) to Douglas fir plywood (7-day cure)	6.0 N/mm ² (865 psi)
8 hours cure	4.3 N/mm ² (618 psi)	Marble (unpolished) to Douglas fir plywood (7-day cure)	6.6 N/mm ² (950 psi)
16 hours cure	4.9 N/mm ² (706 psi)	Granite to Granite (unpolished), 7-day cure followed by 24 hours water immersion	4.5 N/mm ² (658 psi)
24 hours cure	5.9 N/mm ² (862 psi)	Marble to Marble (unpolished), 7-day cure followed by 24 hours water immersion	2.9 N/mm ² (423 psi)
<u>Tensile Shear Strength (Lap Shear Strength):</u>			
Douglas Fir Plywood to stainless steel		5.4 N/mm ² (777 psi) - substrate failure	
Douglas Fir Plywood to hot galvanized steel		4.6 N/mm ² (665 psi) - substrate failure	



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DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun, tool to puncture cartridge seal, 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 when ambient temperatures are 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. Cut nozzle at a 45° angle to required opening, usually ¼ inch or wider. A smaller opening will make extrusion difficult. 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.

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 20 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 temporary mechanical support for 24 hours while the adhesive cures. Permanent mechanical support is required for vertical load situations. 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°C ± 2°C (72°F ± 4°F) and < 50% relative humidity. 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

WARNING: HARMFUL IF INHALED. EYE, SKIN AND RESPIRATORY IRRITANT. MAY CAUSE SKIN AND RESPIRATORY SENSITIZATION.

WARNING: Contains methylene diisocyanate (MDI). Individuals with lung or breathing problems or prior sensitization to isocyanates should not use this product. Avoid breathing vapors. Prolonged or repeated exposure may cause dermal or respiratory sensitization, effects may be permanent. 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 THE 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



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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. 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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