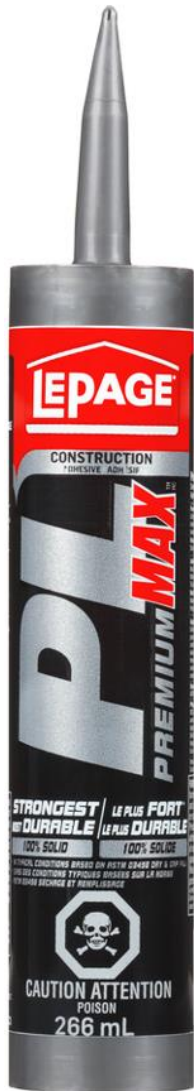




## PL Premium® MAX Construction Adhesive



### DESCRIPTION

LePage® PL Premium® MAX is our strongest, most durable construction adhesive that remains solid after curing. Due to the unique high solid content adhesive technology, this product is ideal for most interior or exterior projects where long-term strength and durability are a must. It can be applied to dry or wet surfaces and in both cold (down to -12°C) and hot (49°C) temperatures. PL Premium® MAX is great for framing, flooring, stairs, railings, most landscaping and deck projects, and other construction or remodeling applications.

Available as:

Item #	Package	Size
2292242	Plastic Cartridge	266 mL

### FEATURES & BENEFITS

- Produces our strongest, most durable bond to most materials
- Remains solid and does not develop air pockets
- Fast grab characteristic and is repositionable
- Easy to apply in all conditions, even down to -12°C
- No run-on
- For indoor and outdoor use
- Full cure in 24 – 48 hours
- Weatherproof

### RECOMMENDED FOR

LePage® PL Premium® MAX bonds to most common construction materials such as wood, plywood, OSB, MDF, hardwood flooring, concrete, stone <sup>[1]</sup>, granite, marble, slate, masonry, brick, foamboard insulation including EPS (expanded polystyrene foam), XPS (extruded polystyrene foam), and polyiso (urethane) foam, porcelain, metal, stainless steel, galvanized metal, cement-based products, ceramic, rigid fiberglass, drywall, rigid and cellular vinyl/PVC trim and molding.

### LIMITATIONS

- Marine Applications
- Water submersion applications
- Polyethylene, polypropylene, polytetrafluoroethylene (PTFE), and flexible vinyl (FPVC)
- Polyethylene (PE) films that cover certain XPS or EPS foam insulation boards
- Bitumen coated surfaces
- <sup>[1]</sup> Certain natural stones such as limestone, travertine, and sandstone will have bonding difficulties
- Some materials such as rubbers and plastics may have bonding difficulties. Test before use
- Composite decking and Ipe 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 266 mL cartridge:

- A 6 mm (1/4") bead extrudes approximately 8.5 m (28 ft)
- A 9.5 mm (3/8") bead extrudes approximately 3.7 m (12.3 ft)



# TECHNICAL DATA SHEET

Revision: 12/15/2022  
Supersedes: 05/30/2018  
Ref. #: 601344

## TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Grey	<u>Application Temperature:</u>	Apply and cure above -12°C (10°F) and below 49°C (120°F)
<u>Appearance:</u>	Thixotropic solid	<u>Odor:</u>	Alcohol
<u>Base:</u>	Silane modified polymer	<u>Open Time:</u>	20 minutes*
<u>Viscosity:</u>	1,200,000 cps	<u>Repositioning Time:</u>	15-20 minutes*
<u>Specific Gravity:</u>	1.71	<u>Clamping Time:</u>	24-48 hours*
<u>VOC Content:</u>	4.0% by weight CARB 64 g/l SCAQMD rule 1168	<u>Cure Time**:</u>	24-48 hours* at 25°C (78°F) and 50% RH
<u>Shelf Life:</u>	18 months from the 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> YYDDD YY = Last two digits of the year of manufacture DDD = Day of manufacture based on 365 days per year Example: 19038 = 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 solid	<u>Applicable Specifications:</u>	<ul style="list-style-type: none"> <li>• ASTM D3498</li> <li>• APA AFG-01</li> <li>• ASTM C557</li> </ul>
<u>Water Resistance:</u>	Yes, when fully cured		

Compression Shear Strength, ASTM D3498:		Douglas Fir to Douglas Fir	
8.79 N/mm <sup>2</sup> (1275 psi)	Dry lumber	4.35 N/mm <sup>2</sup> (631 psi)	Gap Filling
4.94 N/mm <sup>2</sup> (717 psi)	Wet Lumber	7.7 N/mm <sup>2</sup> (1117 psi)	Moisture Resistance
6.23 N/mm <sup>2</sup> (904 psi)	Frozen Lumber		

## 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. Cured adhesive will come off skin in about 2-3 days.

### Preparation:

To ensure positive adhesion it is recommended to use adhesive when ambient temperatures are above -12°C (10°F). For easier application, ensure the product temperature is 15°C (59°F) or higher but below 32°C (90°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 required opening, usually 6 mm (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® MAX to cure on a finished surface.



## DIRECTIONS

### **General Application:**

Apply adhesive to one surface of the materials 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 10 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.

### **Bonding Drywall, Vinyl Board, or Paneling to wall surfaces:**

For bonding to relatively smooth and level surfaces, apply adhesive as a series of vertical beads 25 cm (10") apart (perimeter gluing is not recommended). Start the beads approximately 2.5 cm (1") inside the panel edge, applying 6 mm to 9.5 mm ( $\frac{1}{4}$ " to  $\frac{3}{8}$ ") round beads of adhesive. Immediately after applying the adhesive place the panel against the substrate and press firmly into place to flatten out the adhesive. Be careful not to over press. Mechanical fasteners or temporary bracing must be used and kept in place until the adhesive is fully cured, depending upon the project requirements. Cure time will vary depending on the porosity of the materials used, humidity, and temperature at time of application.

When bonding drywall or paneling to wood/metal stud framing, apply 6 mm to 9.5 mm ( $\frac{1}{4}$ " to  $\frac{3}{8}$ ") round bead of adhesive to each stud starting 7.6 cm (3") from top and ending 7.6 cm (3") from bottom. All drywall applications require perimeter nailing/screws 41 cm (16") O.C. and 61 cm (24") O.C. in the field following the Adhesive Nail-On Attachment Method for gypsum wallboard. Temporary support or bracing is required for prefinished panels until adhesive is fully cured. Mechanical fasteners may be required at the top and bottom of each prefinished panel.

### **Drywall application over foam insulation:**

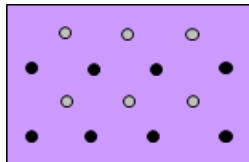
Apply no smaller than 6 mm ( $\frac{1}{4}$ ") round beads of adhesive, as outlined above. Position drywall, align, and press firmly into place. Perimeter fasten to underlying studs or strapping around entire perimeter. It is recommended to brace the centre or field of the panels for at least 24 hours. Mechanical fasteners must be used and kept in place until adhesive is fully cured. Furring strips are recommended for concrete wall applications.

## SPECIAL APPLICATIONS

### **Mirrors:**

Using a caulking gun, apply adhesive dollops to back of mirror in 5 to 7.5 cm (2 to 3-inch) diameter spots approximately 12 mm ( $\frac{1}{2}$ ") thick for every square foot of mirror (see Fig.1). Do not place the adhesive too close to the edge to prevent squeeze out. A permanent support system, such as plastic holders or clips, or mirror channels must be used to hold mirrors in place, both at the top and bottom of mirror. Heavy mirrors may require an additional support system. Place mirror in position, in supports, and carefully press into place within 20 minutes of adhesive application. The adhesive should be compressed so that it is approximately 3 mm ( $\frac{1}{8}$ ") thick. Do not attempt to remove or reposition the mirror once adhesive has started to cure. Brace top of mirror to hold in place while the adhesive cures, usually 24 hours. Mirrors should not be mounted to wallpaper, painted surfaces, plaster, natural stone, fire retardant plywood, pressure treated wood, or any surface that is damaged or not structurally sound. Total time required for curing depends upon temperature, humidity, porosity of substrate, and amount of air that can reach the adhesive. For non-porous surfaces, longer curing time will be required. Fully sealing around the edges may extend cure times.

Fig. 1



Not recommended for overhead mirror installations. Not recommended for mirror overlays. Do not apply horizontal adhesive beads.



## DIRECTIONS

### Tub Surrounds:

#### **Preparation:**

1. The adhesive is dark gray in color and requires the wall be painted a dark color as the adhesive may show through the surround.
2. The temperature of the adhesive, all surfaces, and the working area must be above 10°C (50°F).
3. Walls must be dry and free of dirt, waxes, and soap or other residues. Painted or glossy surfaces require sanding. Remove all paint, wallpaper, old adhesive, or any loose materials. Unpainted, waterproof drywall or cement board is the best backing for tub and shower units. Use primer to seal areas having exposed joint compound.
4. Lay panels flat and allow them to come to room temperature – 18°C to 24°C (65°F to 75°F), for at least 24 hours before installing. Wipe back of panels with IPA (Isopropyl alcohol) to remove any possible release agents. Do not use bent or bowed panels. Make sure that corners are 90° from top to bottom.
5. Pre-fit all materials following the tub surround manufacturer's instructions before using adhesive. Use the cardboard box that the tub kit came in as the template. Measure the spout and faucet placement onto the cardboard template and make the cut-outs. Position the cardboard in place on the wall and check for the correct cut-out placement. Transfer the markings on the tub panel. Make all the cuts in the tub panel using a hole saw bit in an electric drill. Drill a small starter hole. Make all the cuts from the face or front panel surface to the rear or backing surface. This will prevent chipping. Set each tub panel in place in the order suggested by the manufacturer. Limit stressing the tub unit into place, as this will weaken the material.
6. Use masking tape to temporarily support the tub panels in place. Make sure the tops of all panels are levelled and all pieces are aligned. Using a pencil, outline tub panels in their correct position, before gluing.
7. Place the adhesive cartridge in a caulking gun and cut the nozzle at a 45° to desired bead size (6 mm (1/4") minimum). Puncture inner seal. Do not get adhesive on finished parts of tub surround. If this happens remove immediately using mineral spirits to clean wet adhesive from surface, following solvent manufacturer's precautions with plastic surfaces.

#### **Application:**

Apply the adhesive, in continuous 6 mm (1/4") vertical beads, to paneling starting 2.5 cm (1") in from the edges and continuing every 15 cm (6") across the back panel. Do not apply adhesive where the panel will not make full contact with the wall (for example: curved corners). Press the tub surround panel firmly in place within 10 minutes of applying adhesive. Apply hand pressure across the entire panel surface to ensure good adhesive contact.

**Alternate Application Method:** Adhesive may be applied in continuous "S" patterns every 20 cm (8") apart and only on flat sections that closely mate with existing wall surface.

**NOTE:** All application methods will require bracing for at least 24-48 hours to maintain contact between substrates while adhesive cures. Panel edges can be supported with masking tape. After 20 minutes hand press again over all areas of installation to ensure good contact. Connect seams of panels according to tub surround manufacturer instructions. Edges can be sealed at least 24 hours after installation, but not before hand. Allow at least 24 hours after sealing, before using the area.

#### **Clean-up:**

Clean tools and any uncured adhesive residue immediately with mineral spirits, following solvent manufacturers precautions. Cured LePage® PL Premium® MAX can only 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.



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## LABEL PRECAUTIONS

**CAUTION! ATTENTION! POISON!**

**WARNING: HARMFUL IF INHALED. EYE, SKIN AND RESPIRATORY IRRITANT.**

**WARNING: FUMES MAY BE HARMFUL.** Do not breathe fumes. Methanol is released during application and cure, which may cause dizziness, headache, or nausea. Use only in a well-ventilated area. Keep out of reach of children. Wear gloves and safety glasses. Remove contact lenses before using. Wear appropriate respiratory protection for prolonged use. **KEEP OUT OF THE REACH OF CHILDREN.**

**FIRST AID TREATMENT:** Contains Crystalline silica and silanes. If swallowed, call Poison Control Centre or doctor immediately. If in eyes flush with copious amounts of water for at least 15 minutes, holding eyelids open all the time. If symptoms develop and persist, get medical attention. If on skin, wash with soap and water. If skin irritation persists, call a physician. 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

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