LePage® No More Nails® Ultimate Construction Adhesive

Description: LePage® No More Nails® Ultimate Construction Adhesive is a high-quality interior/exterior construction adhesive that delivers crystal clear results in most applications. This formula works in all conditions, all weather and on most materials. It can be applied in wet conditions as well as bond two non-porous surfaces.

Available As:

Item #	Size	Package
2441521	266 mL	Plastic Cartridge

Features & Benefits:

- Works on a wide variety of surfaces, both porous and non-porous, and damp surfaces
- High Solids, No shrinkage
- Low VOC's
- Excellent temperature resistant up to 70°C (158°F)
- Easy extrusion at low temperatures
- Weatherproof & water resistant

Recommended For:

Bonds to most common construction materials such as wood, plywood, OSB, MDF, concrete, glass, marble, granite, tile, porcelain, stone, masonry, brick, foam insulation of all sorts including EPS (expanded polystyrene foam), XPS (extruded polystyrene foam), metal, ceramic, drywall, rigid and cellular vinyl/PVC trim and molding, and some plastics.

Limitations:

Not suitable for the following applications:

- Marine Applications
- Not suitable for water submersion applications or constantly damp environments. Wet surface application is possible if surfaces have the possibility to dry.
- Polyethylene, polypropylene, polytetrafluoroethylene (PTFE), and flexible plasticized PVC, acrylic glass, copper, and brass.
- Polyethylene (PE) films that cover certain XPS or EPS foam insulation boards
- Bitumen coated surfaces
- Certain materials such as rubbers and plastics may have bonding difficulties. Test before use.
- Flexible sheet goods
- Not suitable for mirror applications

Coverage:

For a 266 mL cartridge:

- A 6 mm (1/4") bead extrudes approximately 8.4 m (27.6 ft)
- A 9.5 mm (3/8") bead extrudes approximately 3.7 m (12.3 ft)

Typical Uncured Physical Properties:

Color:	Clear / Transparent	
Appearance:	Thick paste	
Base:	Silane Modified Polymer	
Odor:	Alcohol	
Specific Gravity:	1.65	
Viscosity	1,200,000 cps	
VOC Content:	3.49% by weight	CARB
	58.2 g/l	SCAQMD rule 1168
Freeze-Thaw Stability	Not damaged by freezing	
Shelf Life:	12 months from date of manufacture (unopened)	
Lot Code Explanation:	**YYDDD**	
Stamped on bottom edge of cartridge body	**YY=** Last two digits of year of manufacture **DDD=** Day of manufacture based on 365 days in a year Example: 18061 = 61st day of 2018 = March 2, 2018	

Typical Application Properties:

Application Temperature:	Apply above 5°C (41°F) and under 40°C (104°F) for optimum curing	
Open Time:	10 minutes*	@25°C (77°F) and 50% R.H
Repositioning Time:	5-10 minutes*	@25°C (77°F) and 50% R.H
Clamping Time:	24 hours*	@25°C (77°F) and 50% R.H
Full Cure:	24 to 48 hours* *Time is dependent on temperature, humidity, porosity of substrate and amount of adhesive applied. Cure time is greatly reduced in cold temperatures	
Clean Up	Clean up uncured adhesive residue with mineral spirits. Scrape away cured adhesive using a sharp-edged tool. Follow solvent manufacturer's precautions for using solvents.	

Typical Cured Performance Properties:

Color:	Clear / Transparent	
Cured Form:	Non-flammable solid	
Service Temperature:	30°C (-22°F) to 70°C (158°F)	
Water Resistant:	Yes	
Paintable:	Yes, after full cure	
Sandable:	No	

Tensile Strength (1-inch Overlap): Bond Strength Development		
4 Hours	0.127 N/mm² (18.5 psi)	Maple to Maple Aged/ Tested @ 23°C (73°F)
8 Hours	0.454 N/mm² (65.8 psi)	
24 Hours	0.863 N/mm² (125.2 psi)	
7 Days	1.111 N/mm² (161.2 psi)	
Tensile Strength (1-inch Overlap):		
Aluminum to Maple	0.884 N/mm² (128.3 psi)	Lap shears cured 7 days & tested @ 23°C (73°F)
Aluminum to Aluminum	0.573 N/mm² (83.1 psi)	
Maple to Maple	1.111 N/mm² (161.2 psi)	

Directions:

Tools Typically Required:
Utility knife, caulking gun, tool to puncture cartridge seal, plant mister bottle containing water (if bonding two non-porous surfaces).

Safety Precautions:
Wear gloves to avoid skin contact and wash hands after use.

Preparation:
For best results use above 41°F (5°C). For easier application, ensure the product temperature is 60°F (15°C) or higher but below 90°F (32°C). Surfaces must be clean and free of frost, standing water, grease, oil, dust, release agents, and other contaminants. Wet surfaces are possible if they have the possibility to dry. Pre-fit all materials and protect finished surfaces. Remove nozzle and cut nub. Screw on nozzle and cut at a 45° angle to required opening, at least ¼ inch or wider. Be very careful not to allow LePage® No More Nails® Ultimate to cure on a finished surface (removal may not be possible without surface damage).

- Do Not use building materials that are warped or show evidence of warping. These materials will experience bonding difficulties.

General Application Guidelines:
Apply adhesive to one surface of the materials being bonded. Press the surfaces firmly together within 10 minutes. Materials may be repositioned within 5-10 minutes after applying the adhesive. If bonding two non-porous surfaces (such as foam, 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 a plant mister bottle to the extruded adhesive. The repositioning time will then be reduced to less than 5 minutes. Use mechanical support or temporary bracing for 24-48 hours depending upon project requirements 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 90°F (32°C).

Application Tips:

1. For small, relatively smooth and level surfaces, use straight, parallel beads of adhesive (Fig.1).
2. For large areas a parallel serpentine beads work best placed 6-8" O.C. (Fig.2).
   - **Important: In case of two non-porous surfaces, adhesive beads must not merge or form a continuous** area as contact requires air/moisture to cure.
3. When using in exterior or outdoor applications, it is best to apply adhesive in vertical beads from top to bottom to help support vertical load conditions.
4. For rough and uneven surfaces using the spot method works best (Fig.3)


Fig 1.

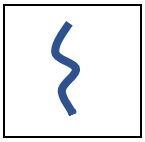
Fig. 2

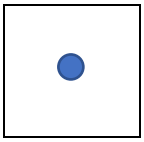
Fig 3.

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 10 inches apart (perimeter gluing is not recommended). Start the beads approximately 1 inch from the panel edge applying ¼" to ⅜" round beads of adhesive. Immediately after applying the adhesive place the foam 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 material used, the humidity and the temperature at time of application.

When bonding drywall or paneling to wood/metal stud framing, apply ¼" to ⅜" round bead of adhesive to each stud starting 3 inches from top and ending 3 inches from bottom. All drywall applications require perimeter nailing/screws 16" O.C. and 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 not less than ¼" 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 center 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.

Directions:

Clean-up:
Clean tools and adhesive residue immediately with mineral spirits following solvent manufacturers precautions. LePage® No More Nails ® Ultimate can only be removed mechanically once cured by carefully cutting it away.

Storage & Disposal:

Not damaged by freezing. Store product at standard conditions which are defined as 22 ± 2°C (72 ± 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:

CAUTION ATTENTION POISON

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. Prolonged or repeated skin contact with uncured adhesive may cause an allergic reaction. Keep out of reach of children. Wear gloves and safety glasses. Remove contact lenses before using. Wear appropriate respiratory protection for prolonged use.

FIRST AID TREATMENT: Contains silanes. If swallowed call a Poison Control Center or doctor immediately. If in eyes or on skin rinse well with water. If breathed in, move person to fresh air.

Refer to 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.

LePage Brand is part of the Henkel family of brands. Founded in 1876, Henkel is a global leader in the consumer and industrial businesses. Henkel operates worldwide with leading brands and technologies in three business areas: Laundry & Home Care, Beauty Care and Adhesive Technologies.

Henkel Canada Corporation - Professional & Consumer Adhesives Headquarters – Mississauga, ON L5N 6C3
www.henkelna.com

For Technical Assistance call: 1-800-624-7767 – Mon-Fri - 9:00a – 4:00p ET
www.lepage.ca