PL® PREMIUM FAST GRAB Construction Adhesive

DESCRIPTION

Loctite® PL® Premium Fast Grab is a 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. PL Premium Fast Grab has high initial tack making it ideal for securing vertical surfaces with less bracing required and is repositionable. Loctite PL Premium Fast Grab is virtually VOC free.

Available As:

Item #	Package	Size
1417170 1655973	Paper Cartridge	10 fl. oz. (295 mL)

FEATURES & BENEFITS

- Up to 8 times the strength of conventional adhesives during initial 24 hours
- Low VOC content
- Fast Grab formula reduces bracing required
- Water resistant. Can be used outdoors and in high humidity environments
- Long open time allows for longer repositioning time
- For indoor and outdoor use
- Full cure in 24 to 48 hours

RECOMMENDED FOR

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, 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 stone* such as limestone, travertine, sandstone will have bonding difficulties
- Certain 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

A 10-fl. oz. cartridge:

- A ¼” (6 mm) diameter bead extrudes approximately 30.6 ft. (9.3 m)
- A 3/8” (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m)

TECHNICAL DATA

Typical Uncured Physical Properties:

Color:	Grey
Appearance:	Thick paste
Base:	Polyurethane Formaldehyde / Asbestos free
Viscosity:	1,800,000 cps
Specific Gravity:	1.30
VOC Content:	1.7% by weight (22 g/L)
Shelf Life:	12 months from date of manufacture (unopened)
Lot Code Explanation:	HE**9038**R302

9 = Last Digit of Year of Manufacture
038 = Day of Manufacture based on 365 days per year
For example: 9038 = February 7, 2019

Typical Application Properties

Application Temperature:	The adhesive should be above 41°F (5°C) and below 95°F (35°C) for application
Odor:	Aromatic / Minimal
Open Time:	20 minutes*
Repositioning Time:	15-20 minutes*
Clamping Time:	24 hours
Cure Time**:	24 to 48 hours* at 78°F (25°C) and 50% RH *Time is dependent upon temperature, humidity, porosity of substrate and amount of adhesive used
Clean Up:	Clean up uncured adhesive residue with 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:	Grey
Cured form:	Non-flammable, hard solid
Service Temperature: Long Term:	0°F (-18°C) to 160°F (71°C)
Water Resistance:	Yes
Applicable Specifications:	▪ ASTM D 3498 ▪ APA AFG-01 ▪ ASTM C 557 ▪ Green Guard Certified

Compression Shear Strength, ASTM D3498:
Douglas Fir to Douglas Fir plywood

Dry Lumber Bonding	809 psi (5.6N/mm^2)
Wet Lumber Bonding	671 psi (4.6 N/mm^2)
Frozen Lumber Bonding	683 psi (4.7 N/mm^2)
Gap Filling	631 psi (4.4 N/mm^2)
Moisture Resistance	867 psi (6.0 N/mm^2) no delamination

Bond Strength Development* @ 73°F (23°C):
Douglas Fir to Douglas Fir plywood

6 hours cure	360 psi (2.5 N/mm^2)
8 hours cure	618 psi (4.3 N/mm^2)
16 hours cure	706 psi (4.9 N/mm^2)
24 hours cure	862 psi (5.9 N/mm^2)

Compression Shear Strength to Various Substrates:

OSB to expanded cellular PVC (24-hour cure)	365 psi (2.5 N/mm^2) Wood failure
PVC trim molding to pine (24-hour cure)	624 psi (4.3 N/mm^2)
Fiber cement to Douglas Fir plywood (7-day cure)	389 psi (2.7 N/mm^2) Substrate failure
Fiber cement to Douglas Fir plywood (14-day cure followed by water immersion and drying)	380 psi (2.6 N/mm^2) Wood failure

Stone Bonding: Compression Shear Strength:

Granite (unpolished) to Douglas fir plywood (7-day cure)	865 psi (6.0 N/mm^2)
Marble (unpolished) to Douglas fir plywood (7-day cure)	950 psi (6.6N/mm^2)
Granite to Granite (unpolished), 7-day cure followed by 24 hours water immersion	658 psi (4.5 N/mm^2)
Marble to Marble (unpolished), 7-day cure followed by 24 hours water immersion	423 psi (2.9 N/mm^2)

TECHNICAL DATA

Tensile Shear Strength (Lap Shear Strength):	
Douglas Fir Plywood to stainless steel	777 psi (5.4 N/mm^2) - Wood failure
Douglas Fir Plywood to hot galvanized steel	665 psi (4.6 N/mm^2) - Wood failure

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 of skin in about 3 days.

Preparation:
To ensure positive adhesion it is recommended to use adhesive above 41°F (5°C). For easier application, ensure the product temperature is 59°F (15°C) 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 20 minutes. Materials may be repositioned within 20 minutes after applying the 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 support for at least 24 hours or more while adhesive cures. 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 90°F (32°C) 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 adhesive residue immediately with mineral spirits. Loctite® PL® Premium Fast Grab can be removed mechanically once cured.

STORAGE & DISPOSAL

Not damaged by freezing. Store product at standard conditions which are defined as 72°F ± 4°F (22°C ± 2°C) 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. Avoid contact with eyes and skin. Prolonged or repeated exposure may cause dermal or respiratory sensitization, effects may be permanent. Gloves recommended.

FIRST AID: If swallowed, call a physician or Poison Control Center immediately. Do not induce vomiting. For eye contact flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. If inhaled, move to fresh air. If symptoms develop or persist, get immediate medical attention. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov.

Refer to the Material Safety Data Sheet 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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Henkel Corporation - Professional & Consumer Adhesives Headquarters - Rocky Hill, CT 06067
www.henkelna.com

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