



# TECHNICAL DATA SHEET



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## DESCRIPTION

Loctite® PL® 510 Wood and Panel construction adhesive is a premium quality adhesive specifically formulated for bonding all types of wood for interior or exterior construction projects. The formulation is low in odor and cleans up easily with water.

## RECOMMENDED FOR:

Wet, frozen and treated lumber, plywood, OSB, particleboard, paneling, molding & trim, polystyrene panels and drywall.

## NOT RECOMMENDED FOR:

- Underwater applications or permanent water immersion
- Exterior applications where rain is expected within 24 hours
- Use on mirrors and metals that will corrode
- Bonding two non-porous surfaces
- Polyethylene, polypropylene, nylon or Teflon®/ polytetrafluoroethylene (PTFE)
- Cement Board (Durock®)
- Composite decking

## FEATURES & BENEFITS:

Feature	Benefits
Ultra low VOC content.....	Qualifies for LEED® points; Meets stringent State and Federal VOC Regulations
Water-based adhesive.....	Non-flammable and environmentally friendly
Bonds to most building materials.....	Provides a strong, durable bond to multiple surfaces; Bonds well to wet, frozen and treated lumber
Gap filling.....	Will bridge minor gaps when bonding irregular surfaces; Helps reduce squeaks and sound transmission
Easy cleanup with water (uncured adhesive).....	Eliminates the use of harsh cleaning Chemicals
Low odor.....	Great for indoor projects – no strong solvent odor

Item #	Package	Size
1538750	Paper Cartridge	10 fl. oz. (295 mL)

## COVERAGE

For a 10 fl. oz. (295 mL) cartridge:  
A ¼" (6 mm) bead extrudes approximately 30.6 ft (9.35 m).  
A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m).

## DIRECTIONS

### Tools Typically Required:

Utility knife, caulking gun and tool to puncture inner seal of cartridge.

### Safety Precautions:

Wear gloves.

### Preparation:

The temperature of the adhesive, the surfaces and the working area must be above 40°F (4°C) and below 100°F (38°C). For best performance, apply adhesive at 70°F (21°C). Ensure surfaces to be bonded are clean, dry, structurally sound and free of dust, grease, oil, snow, ice, standing water or other contaminants. To increase adhesion, sand glossy surfaces to a dull finish.

### Application:

#### General Construction Use:

Pre-fit all materials prior to applying product. Cut off tip of cartridge at a 45° angle to desired bead size. Puncture inside seal of cartridge. Using a caulking gun, apply adhesive to one of the surfaces to be bonded. Press materials firmly together. Repositioning time is approximately 10 minutes. If work is delayed, remove excess adhesive and reapply.

#### Paneling Instructions:

Cut and pre-fit panels. Apply ¼" bead near the panel edges and every 6" in-field. Press panel firmly into place. Panels must be installed within 10 minutes of adhesive application. Apply firm pressure across the entire panel surface to ensure good contact with the adhesive. Fasten or brace the panel until the adhesive is dry (minimum of 24 hours). The cure time will vary depending on the temperature, airflow and porosity of the material being bonded.

### Clean-up:

Clean tools and uncured adhesive residue immediately with warm water and soap. Cured adhesive may be carefully cut away with a sharp-edged tool.

## STORAGE AND DISPOSAL

DAMAGED BY FREEZING. Store in a cool, dry location at room temperature. Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

## LABEL PRECAUTIONS

**CAUTION!** Contains ethylene glycol and crystalline silica. May cause skin, eye and respiratory irritation. Avoid contact with eyes and skin. Use with adequate ventilation. Do not swallow. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center. For eye contact flush with water for 15 minutes. For skin contact wash thoroughly with soap and water. If affected by vapors, get fresh air. **KEEP OUT OF REACH OF CHILDREN.**

**WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Refer to the Material Safety Data Sheet (MSDS) 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. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. 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.

## TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Tan	<u>Application Temperature:</u>	40°F (4°C) to 100°F (38°C)
<u>Appearance:</u>	Thick paste	<u>Odor:</u>	Mild acrylic odour
<u>Base:</u>	Acrylic	<u>Repositioning Time:</u>	20 minutes @ 70°F, 50% Relative Humidity
<u>Specific Gravity:</u>	1.224	<u>Dry Time:</u>	48 hours Dry time depends upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>pH:</u>	7.2 – 7.8		

VOC Content: < 0.1% by weight (< 2 g/L)

Shelf Life: 18 months from date of manufacture  
(unopened)

Lot Code Explanation: YYDDD  
YY = Last two digits of year of  
manufacture  
DDD = Day of manufacture  
based on 365 days in a year  
(Lot code stamped on  
bottom plunger of  
cartridge.)

For example: 13061  
= 61<sup>st</sup> day of 2013  
= March 2, 2013

### Typical Cured Performance Properties

Color: Off-White

Cured Form: Non-flammable solid

Service Temperature: 10°F (-12°C) to 160°F (71°C)

Water Resistant: Yes. Do not use outdoors if rain is expected within 24 hours.

Shear Strength:  
(ASTM C 557-99)  
24 hours @ 73°F 26.3 psi  
14 days @ 73°F 42.3 psi

Specifications:

- Tested per ASTM E 72 - Racking Load Evaluation of Sheathing Materials on a Standard Wood Frame
- Conforms to the performance characteristics of ASTM C 557
- Qualifies for LEED® points
- Complies to the following VOC regulations:
  - SCAQMD Rule # 1168
  - CARB
  - BAAQMD