



## PL<sup>®</sup> 500 Landscape Construction Adhesive

**Description:** Loctite<sup>®</sup> PL<sup>®</sup> 500 Landscape Construction Adhesive is an exterior, heavy-duty, premium quality adhesive designed to meet any landscaping need. It delivers a quick and easy solution to installing the final course of cap with landscape blocks and the installation of cement paving stones. Excellent for landscaping projects, such as securing block walls and capstones and for bonding brick, stone, timbers, concrete, metal and wood. Loctite PL 500 Landscape Construction Adhesive may be used under a variety of moisture and temperature conditions ranging from sub-freezing to elevated temperatures.

**Available As:**

Item #	Size	Package
1683231	10 fl oz (295 ml)	Plastic Cartridge
1654392 1654393	10 fl oz (295 ml)	Paper Cartridge
1602122	28 fl oz (828 ml)	Paper Cartridge

**Features & Benefits:**

- All Weather Application: 0°F to 100°F
- Withstands Weather and Water
- Engineered for Block, Brick, Stone and Timber
- Bonds Wet or Dry
- Will Bridge Minor Gaps

**Recommended For:**

Loctite PL 500 is specially formulated for exterior landscaping. It can be used for installing the final course of cap with landscape blocks, the installation of cement paving stones and securing block walls. Adheres to brick, stone, wood, slate, metal and concrete.

**For Best Results:**

Not recommended for the following applications:

- Areas of continuous water submersion
- Use on plastics
- Applications over hygroscopic salt-treated wood, such as zinc chloride treatments. These substances attract, absorb and retain moisture

**Coverage:**

For a 10 fl. oz. (295 ml) cartridge:

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

For a 28 fl. oz. (828 mL) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 86 ft. (26 m)
- A 3/8" (9.5 mm) bead extrudes approximately 38 ft. (12 m)



# TECHNICAL DATA SHEET

## Typical Uncured Physical Properties:

Color:	Light Tan	
Appearance:	Thick paste	
Base:	Synthetic Rubber and resins Formaldehyde free	
Solvent:	Acetone	
Odor:	Acetone-like	
Specific Gravity:	1.44	
Flashpoint:	1.4°F (-17°C)	
Viscosity:	210,000 cps	
VOC Content:	0.25% by weight 7.5 g/l	CARB SCAQMD rule 1168
Shelf Life:	18 months from date of manufacture (unopened)	
Lot Code Explanation:	<b>YYDDD</b>	
Stamped on bottom plunger of cartridge for 295 ml	<b>YY=</b> Last two digits of year of manufacture <b>DDD=</b> Day of manufacture based on 365 days in a year	
Stamped on plastic nozzle for 825 ml	Example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014	

## Typical Application Properties:

Application Temperature:	Apply and cure between 0°F (-18°C) and 100°F (38°C) For best results, use at 70°F (21°C)
Open Time:	15 minutes* @ 78°F (25°C) and 50% R.H.
Repositioning Time:	30 minutes* @ 78°F (25°C) and 50% R.H.
Cure Time:	2 to 7 days* @ 78°F (25°C) and 50% R.H.

\*Time is dependent on temperature, humidity, porosity of substrate and amount of adhesive applied

## Typical Cured Performance Properties:

Color:	Light Tan
Cured Form:	Non-flammable solid
Service Temperature:	-20°F (-29°C) to 150°F (66°C)
Water Resistant:	Yes
Compression Shear Strength:	ASTM D3498
Wet Lumber:	227 psi (1.57 N/mm <sup>2</sup> )
Frozen Lumber:	179 psi (1.23 N/mm <sup>2</sup> )
Dry Lumber:	283 psi (1.95 N/mm <sup>2</sup> )
Gap-Filling:	279 psi (1.92 N/mm <sup>2</sup> )

## Directions:

### Tools Typically Required:

Utility knife, caulking gun, tool to puncture cartridge seal.

### Safety Precautions:

Wear gloves. Wash hands after use.

### Preparation:

The temperature of the adhesive, the surfaces and the working area must be between 0°F (-18°C) and 100°F (38°C). For smooth, fast, easy application during cold weather, store adhesive at room temperature (70° ± 5°F) 24 hours prior to use. Ensure surfaces to be bonded are clean, structurally sound and free of standing water, dust, grease, oil and/or other contaminants. Pre-fit all materials prior to applying product. Cut off tip of cartridge at 45° angle to desired bead size. For exterior applications, the recommended bead size is 3/8" (9.5 mm). Puncture seal inside of nozzle.



# TECHNICAL DATA SHEET

## Application:

Apply a continuous zigzag bead to one surface to be bonded. Apply the adhesive at a rate so that the materials can be positioned and fastened within 15 minutes. All projects may require support until adhesive has cured. It is recommended that all foot traffic stay off of paver stones or retaining caps for at least 24 to 48 hours after installation and heavy traffic for approximately 4 to 5 days after installation.

## For Landscape Blocks:

When installing the cap onto the final course of landscape blocks, apply approximately 2" in from the front and 2" in from the back of the cap to be installed.

## For Concrete Paving Stones:

Apply an "S" shaped bead to the back of the stone to be installed. If using old concrete, clean with a 20% muriatic acid solution, then rinse with clean water and allow to dry prior to applying adhesive.

## Clean-up:

Clean tools and uncured adhesive residue immediately with acetone or mineral spirits in a well-ventilated area to the outdoors. Cured adhesive may be carefully cut away with a sharp-edged tool.

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## Storage & Disposal:

Not damaged by freezing. Store away from heat, flame and spark in a cool, well-ventilated area. For best results, store at 70°F (21°C). Use an approved hazardous waste facility for disposal. Hardened material may be disposed of with trash.

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## Label Precautions:

**DANGER! EXTREMELY FLAMMABLE. VAPORS MAY CAUSE FLASH FIRE. HARMFUL IF INHALED OR SWALLOWED.**

**DANGER!** Contains acetone and methyl acetate. **EXTREMELY FLAMMABLE.** Vapors may ignite explosively. Do not use or store near heat, sparks or open flame. Do not smoke when using this product. Extinguish all flames and pilot lights and turn off all sources of ignition, including stoves, heaters and electric motors during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross ventilation. Use in a well ventilated area. Avoid breathing vapors. Avoid contact with eyes and skin. Prolonged or repeated exposure may affect the nervous system causing dizziness, headache or nausea. If you experience eye watering, headache or dizziness, leave the area to obtain fresh air. Do not take internally. **FIRST AID:** If swallowed do not induce vomiting, call a physician or Poison Control center immediately. For eye contact flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. If overcome by vapors, get fresh air. **KEEP OUT OF THE REACH OF CHILDREN.**

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

**NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver and kidney damage or may cause cardiac arrhythmia. **INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.**

Refer to 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. 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.



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