



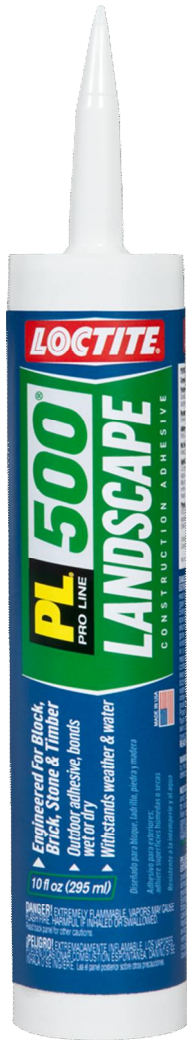
# TECHNICAL DATA SHEET



## PL® 500 Landscape Construction Adhesive

### Henkel Corporation

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### DESCRIPTION

Loctite® PL® 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.

### RECOMMENDED FOR:

Use on:

- Brick
- Stone
- Timbers
- Slate
- Concrete
- Metal
- Wood

### NOT RECOMMENDED FOR:

- 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

### FEATURES & BENEFITS:

Feature	Benefits
True All Weather Application.....	Waterproof and weather resistant. Use in temperatures from 0°F to 100°F.
Cold Weather Gunnable.....	No "roll-up" on frozen lumber
Adheres to brick and stone.....	Ideal for any landscaping project; Easy solution to securing final course of cap stones or installing cement paving stones
Bonds to most building materials.....	Provides a strong, durable bond to multiple surfaces
Gap filling.....	Will bridge minor gaps when bonding irregular surfaces

### COVERAGE

For a 10 fl. oz. cartridge:

- A ¼" (6 mm) bead extrudes approximately 30.6 ft (935 m).
- A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m).

For a 28 fl. oz. cartridge:

- A ¼" (6 mm) bead extrudes approximately 85.8 ft (26.1 m).
- A 3/8" (9.5 mm) bead extrudes approximately 38.1 ft (11.6 m).

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

## 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.

### 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.

## STORAGE AND DISPOSAL

Not damaged by freezing. For best results, store at 70° ± 5°F in a cool, dry place. Store away from heat, flame and sparks. Take unwanted product to an approved household hazardous waste transfer facility. Hardened material may be disposed of with trash.

## 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 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> Light Tan	<u>Application Temperature:</u> Apply and cure between 0°F (-18°C) and 100°F (38°C)
<u>Appearance:</u> Thick paste	<u>Repositioning Time:</u> 15 minutes
<u>Base:</u> Synthetic rubber and resins	<u>Full Cure Time:</u> 2 to 7 days Cure time depends upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Odor:</u> Acetone, strong solvent	
<u>Specific Gravity:</u> 1.44	
<u>Viscosity:</u> 210,000 cps	
<u>Flash Point:</u> 1.4°F (-17°C)	
<u>VOC Content:</u> 0.25% by weight (7.5 g/L)	
<u>Shelf Life:</u> 18 months from date of manufacture (unopened)	
<u>Lot Code Explanation:</u> YYDDD YY = Last two digits of year of manufacture DDD = Day of manufacture based on 365 days in a year	
(Lot code is stamped on bottom plunger of cartridge)	For example: 13061 = 61 <sup>st</sup> day of 2013 = March 2, 2013

### Typical Cured Performance Properties

<u>Color:</u>	Light Tan
<u>Cured Form:</u>	Non-flammable solid
<u>Service Temperature:</u>	-20°F (-29°C) to 150°F (66°C)
<u>Water Resistance:</u>	Yes
<u>Shear Strength (ASTM D 3498):</u>	
Wet Lumber:	227 psi (1.57 N/mm <sup>2</sup> ) (Requirement = 150 psi (1.03 N/mm <sup>2</sup> ))
Frozen Lumber:	179 psi (1.23 N/mm <sup>2</sup> ) (Requirement = 100 psi (0.69 N/mm <sup>2</sup> ))
Dry Lumber:	283 psi (1.95 N/mm <sup>2</sup> ) (Requirement = 150 psi (1.03 N/mm <sup>2</sup> ))
Gap Filling:	279 psi (1.92 N/mm <sup>2</sup> ) (Requirement = 100 psi (0.69 N/mm <sup>2</sup> ))