



TECHNICAL DATA SHEET



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DESCRIPTION

Loctite® PL® 530 Mirror, Marble and Granite Construction Adhesive is a premium-grade solvent-based adhesive engineered specifically for use in kitchen and bath applications. It provides superior bonding capabilities in wet and humid areas, and will not stain or damage mirrors or solid surfaces. Loctite® PL® 530 adheres to common materials found in kitchen and bath areas including mirrors, marble, granite, concrete, brick, glass, tile, ceramic, fiberglass, metals, drywall and backsplashes. Use only on electro-copper plated glass mirrors.

RECOMMENDED FOR:

PL® 530 adheres to common materials found in kitchen and bath areas including mirrors, marble, granite, concrete, brick, glass, tile, ceramic, fiberglass, metals, drywall and backsplashes. Use only on electro-copper plated glass mirrors conforming to US Federal Specification DD-M-00411 against silver spoilage. Mirror must be supported at bottom with mechanical fasteners.

NOT RECOMMENDED FOR:

- Not recommended for polystyrene foam, tub surrounds, installation of ceramic or stone floors
- Polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE)
- Do not use in areas subject to water immersion
- Acrylic mirrors
- Not recommended for installation of floor tiles or thresholds (ceramic, porcelain or stone)
- Overhead applications

FEATURES & BENEFITS:

Feature	Benefits
Bonds to common materials found in kitchen and bath.....	Great for use on mirrors, marble and granite
Engineered formulation.....	Won't stain or damage materials
Forms strong, permanent bonds.....	Long lasting adhesion in wet and humid areas
Low VOC formulation.....	Meets stringent Federal and State VOC regulations

Item #	Package	Size
1693636	Paper Cartridge	10 fl oz (295 mL)

COVERAGE

For a 10 fl. oz. cartridge:
A ¼" (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).
*Approximately 12 square feet of mirror

DIRECTIONS

Tools Typically Required:
Utility knife, caulking gun

Safety Precautions:
Ventilate to the outside during application and cure. Wear gloves. Wash hands after use.

Preparation:

General application: The temperature of the adhesive, the surfaces and the working area must be between 1.4°F (-17°C) and 120°F (49°C). For smooth, fast, easy application during cold weather, store adhesive at room temperature (70° ± 5°F / 22 ± 2°C) 24 hours prior to use. Ensure surfaces to be bonded are clean, dry, free of dust, grease, oil or other contaminants and structurally sound. Do not apply over wallpaper, vinyl or foil wall coverings. To increase adhesion, sand glossy or painted surfaces to a dull finish. Pre-fit all materials prior to applying product. Cut off tip of cartridge at 45° angle to desired bead size. The recommended bead size is 3/8" (9.5 mm). Puncture seal inside of nozzle.

Mirror: For best adhesion the mirror, substrate and adhesive should be at room temperature (70 ± 5°F / 22 ± 2°C) for 24 hours before use. Do not use on a painted surface, wall coverings or treated wood. On porous substrates such as drywall or wood, apply a primer or sealer (not paint) on the substrate and allow it to dry. Painted surfaces should be sanded to the original surface and the substrate cleaned and sealed with a primer. Wall covering must be removed where the adhesive is to be applied, cleaned and sealed.

Application:

General application: Using a caulking gun, apply 3/8" zigzag bead to one surface to be bonded or apply a continuous broken bead around the perimeter and in the center of the object. One surface must be porous. Ensure that all outer edges and centers are adequately supplied with adhesive to ensure a complete and total bond. Bracing or nailing is recommended for vertical applications. Use nails sparingly for support and as an aid to alignment during installation. Repositioning time is approximately 15 minutes. If work is delayed, remove excess adhesive and begin again. After use, wipe off nozzle tip and recap immediately.

Mirror bonding: This product must be used with a permanent support system. Be very careful not to scratch or damage the back coating of the mirror. Apply the adhesive to the back of mirror or the substrate in ½ inch thick globs approximately 2- 3 inches in diameter every square foot. Place the adhesive mounds so that space will be left between them when the mirror is installed. This will allow the adhesive to dry. Do not place the adhesive too close to the edge to prevent "squeeze out". Place mirror into support channels or hangers and press in place within 10 -15 minutes. The adhesive should be compressed to 1/8" to 3/16". Tape or brace the top of the mirror until the adhesive has set at least 48 hours. For non porous surfaces longer curing time will be required. Do not try to reposition the mirror once in place. If sealing the edges wait a minimum of 7 days. Curing time will depend on temperature, humidity, type of substrate and amount of air that can reach the adhesive.

Clean-up:

Clean tools and uncured adhesive residue immediately with mineral spirits or paint thinner in a well-ventilated area to the outdoors following the manufacturer's safety instructions for use. 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 (22 ± 2°C) 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 1.4°F (-17°C) and 120°F (49°C). See mirror instructions.
<u>Appearance:</u> Thick paste	<u>Odor:</u> Sweet solvent smell
<u>Base:</u> Synthetic rubber and resins	<u>Repositioning Time:</u> 15 minutes
<u>Specific Gravity:</u> 1.44	<u>Full Cure Time:</u> 2 to 7 days Note: Cure time depends upon temperature, humidity, porosity of substrate and amount of adhesive used.
<u>Viscosity:</u> 210,000 cps	
<u>Flash Point:</u> 1.4°F (-17°C)	
<u>VOC Content:</u> 5.2 g/L (0.3% by weight), calculated	
<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 (Lot code is stamped on bottom plunger of cartridge) DDD = Day of manufacture based on 365 days in a year For example: 13061 = 61 st 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:	295 psi (2.03 N/mm ²) (Requirement = 150 psi (1.03 N/mm ²))
Frozen Lumber:	165 psi (1.14 N/mm ²) (Requirement = 100 psi (0.69 N/mm ²))
Dry Lumber:	246 psi (1.70 N/mm ²) (Requirement = 150 psi (1.03 N/mm ²))
Gap Filling:	248 psi (1.71 N/mm ²) (Requirement = 100 psi (0.69 N/mm ²))
<u>Specifications:</u>	Meets and exceeds the following specifications: <ul style="list-style-type: none"> ▪ American Plywood Association (APA) AFG-01 ▪ ASTM D 3498-93 ▪ HUD UM 60A