



## PL<sup>®</sup> 520 Mirror Construction Adhesive

**Description:** Loctite PL 520 Mirror Construction Adhesive is a high performance adhesive formulated especially for mounting mirrors. It can be used on most structurally sound interior surfaces such as wood, drywall, metal and painted surfaces. PL 520 is easy to apply and will provide a safe, strong and permanent bond to most types of mirrors.

**Available As:**

Item #	Size	Package
1650979	10 fl oz (295 ml)	Paper Cartridge

**Features & Benefits:**

- Won't Harm Mirror Surface
- Strong Permanent Bond
- Bonds to Most Building Materials
- Low VOC Formulation

**Recommended For:**

PL 520 Mirror Construction Adhesive is designed for the permanent fastening of electro-copper plated glass mirrors to structurally sound interior wall surfaces. Adheres to wood, drywall, painted surfaces, plaster and metal.

**For Best Results:**

- Do not use for overhead applications
- This product is only to be used with a securely mounted permanent support system, such as "L" hangers or "J" channels, during and after cure
- Not recommended for mounting mirrors to wall-papered surfaces
- Can be used only on electro-copper plated mirrors

**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)



# 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:	1.39	
Flashpoint:	1.4°F (-17°C)	
Viscosity:	270,000 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 Example: 14061 = 61 <sup>st</sup> day of 2014 = March 2, 2014	

## Typical Application Properties:

Application Temperature:	Apply and cure between 40°F (4°C) and 100°F (38°C) For best results, use at 70°F (21°C)
Open Time:	10 minutes* @ 78°F (25°C) and 50% R.H.
Repositioning Time:	15 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
24 Hour Shear Strength:	60 psi (0.41 N/mm <sup>2</sup> ) ASTM C557
14 Day Shear Strength:	60 psi (0.41 N/mm <sup>2</sup> ) ASTM C557
Cyclic Exposure Shear:	60 psi (0.41 N/mm <sup>2</sup> ) ASTM C557
24 Hour Tensile Shear:	30 psi (0.21 N/mm <sup>2</sup> ) ASTM C557
14 Day Tensile Shear:	30 psi (0.21 N/mm <sup>2</sup> ) ASTM C557
Specifications:	Meets or exceeds ASTM C557

## Directions:

### Tools Typically Required:

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

### Safety Precautions:

Interior applications require ventilation to the outside during application and cure. Wear gloves. Wash hands after use.

### Preparation:

The temperature of the adhesive, the surfaces and the working area must be between 40°F - 100°F (4°C - 38°C), however for best results, temperatures between 60°F - 85°F (15°C - 30°C) for 24 hours or longer are recommended before installation. Be very careful not to scratch or damage the back coating of the mirror. Ensure surfaces to be bonded are clean, dry, structurally sound and free of dust, grease, oil or other contaminants. Concrete surfaces must be painted to prevent caustic lime from attacking the mirror backing. Prime drywall and plaster surfaces.



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For painted surfaces, lightly sand with coarse sandpaper. Cut off tip of cartridge at 45° angle to give a 1/4" (6 mm) diameter bead. Puncture seal inside of nozzle. Protect surrounding areas and floors from drips, squeeze outs etc. Install plastic holders or clips or support channel prior to the application of the adhesive.

### Application:

Using a caulking gun, apply adhesive to back of mirror in 2 to 3 inch (5 to 7.5 cm) diameter spots approximately 1/2" (12 mm) thick for every square foot of mirror. Do not place the adhesive too close to the edge to prevent squeeze out. A support system, such as plastic holders or clips must be used to hold mirrors in place. Place mirror in position in supports and carefully press into place within 10 minutes of application. The adhesive should be compressed so that it is approximately 1/8 inch (3 mm) thick. Do not attempt to remove or reposition the mirror once in place. Brace top of mirror to hold in place while the adhesive cures, usually 48 hours. Maximum bond strength is obtained when the original bond is preserved. Typically, PL 520 will cure to 60% strength within 48 hours at normal room temperature. Total time required for curing depends upon temperature, humidity, porosity of substrate and amount of air that can reach the adhesive. For non porous surfaces longer curing time will be required. If sealing the edges wait a minimum of 7 days.

### Clean-up:

Clean tools and uncured adhesive residue immediately with mineral spirits or paint thinner 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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