



TECHNICAL DATA SHEET



PL® 520 Mirror Construction Adhesive

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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. Loctite® PL® 520 remains flexible and will not become brittle over time. It is easy to apply and will provide a safe, strong and permanent bond to most types of mirrors.

RECOMMENDED FOR:

Loctite® PL® 520 Mirror Construction Adhesive is designed for the permanent fastening of electro-copper plated mirrors to structurally sound interior wall surfaces.

LIMITATIONS:

- Do not use for overhead applications
- Plastic holders or clips must be used to hold mirrors in place
- Not recommended for mounting mirrors to wall-papered surfaces
- Can be used only on electro-copper plated mirrors

FEATURES & BENEFITS:

Feature	Benefits
Forms a strong, permanent bond.....	Long lasting adhesion
Remains flexible.....	Will not flake or become brittle
Bonds to most building materials.....	Provides a strong, durable bond to multiple surfaces
Low VOC formulation.....	Meets stringent Federal and State VOC regulations

Item #	Packaging	Size
1650979	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 (935 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:

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 40°F (4°C) or above to achieve proper adhesion. Ensure surfaces to be bonded are clean, dry, structurally sound and free of dust, grease, oil or other contaminants. Unpainted surfaces of drywall, plaster and concrete must be sealed to prevent caustic lime from attacking the mirror backing. 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:

Using a caulking gun, apply adhesive to back of mirror in a 1" diameter spot for every square foot of mirror. Place mirror in position within 10 minutes of application. A support system, such as plastic holders or clips must be used to hold mirrors in place. Do not attempt to remove or reposition the mirror once in place. Maximum bond strength is obtained when the original bond is preserved.

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.

STORAGE AND DISPOSAL

NOT DAMAGED BY FREEZING. Store away from heat, flame and spark in a cool, well-ventilated place at room temperature (70° ± 5°F). In cold weather, product should be kept at room temperature for at least 24 hours prior to use to improve extrusion. Use an approved hazardous waste facility for disposal.

LABEL PRECAUTIONS

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.

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>	Apply and cure between 0°F (-18°C) and 100°F (38°C)
<u>Appearance:</u>	Thick paste	<u>Open time:</u>	10 minutes
<u>Base:</u>	Synthetic Rubber and Resins	<u>Cure Time:</u>	2 to 7 days Note: Cure time is dependent upon application conditions such as, temperature, humidity and amount of adhesive applied.
<u>Specific Gravity:</u>	1.39		
<u>Viscosity:</u>	250,000 cps		
<u>Flash Point:</u>	1.4°F (-17°C)	<u>Odor:</u>	Strong solvent odor (Apply and cure in a well ventilated area)
<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 For example: 09061 = 61 st day of 2009 = March 2, 2009 (Lot code is stamped on bottom plunger of cartridge)		

Typical Cured Performance Properties			
<u>Color:</u>	Tan	<u>Specifications:</u>	Meets or exceeds ASTM C 557
<u>Cured Form:</u>	Non-Flammable, Rubbery solid	<u>ASTM C 557 Results:</u>	
<u>Service Temperature:</u>	-20°C (-29°C) to 150°F (66°C)	10.1.4 – 24 Hour Shear	60 psi (Requirement = 10 psi)
		10.1.5 – 14 Day Shear	60 psi (Requirement = 40 psi)
		10.1.6 – Cyclic Exposure Shear	60 psi (Requirement = 32 psi)
<u>Water Resistant:</u>	Yes	10.2.3 – 24 Hour Tensile	30 psi (Requirement = 15 psi)
		10.2.4 – 14 Day Tensile	30 psi (Requirement = 25 psi)