



# TECHNICAL DATA SHEET



## Super Glue Liquid Pro

**Description:** LePage Super Liquid Pro has proven superior performance over ordinary super glues. It works faster and holds stronger on more surfaces than ordinary instant adhesives thanks to a patented additive. The liquid formula works well on a variety of porous and non-porous surfaces and close fitting repairs. Super Glue Liquid Pro's super strength formula is ideal for heavy-duty projects and repairs. It dries clear and sets without clamping and is also resistant to moisture, most chemicals and freezing temperatures.

**Available As:**

Item #	Size	Package
1668036	20 ml	Carded Bottle

**Features & Benefits:**

- Pin Point Nozzle for Accurate Dispensing
- Sets in Seconds
- Super Strength Formula for Heavy Duty Repairs
- Dries Transparent

**Recommended For:**

Use for repairing figurines, costume jewelry, cameras, toys, metal car parts, wiper blades, rubber seals and O-rings. Bonds leather, cork, paper, cardboard, wood, chipboard, fabric, metal, ceramic, rubber and hard plastics such as Plexiglas®, polycarbonate, polystyrene and PVC.

**For Best Results:**

- Do not use polystyrene foam, foam rubber, pure bone china, glass, silicone rubber, polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE)
- Bonded items should not be placed in oven or microwave
- Not suitable for bonding assemblies which will hold hot liquids
- Do not use on glazed surfaces
- Not suitable for repairs needing high flexibility or for gap-filling applications



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## Typical Uncured Physical Properties:

Color:	Clear and Colorless	
Appearance:	Liquid	
Base:	Ethyl cyanoacrylate	
Odor:	Sharp, irritating (use in a well-ventilated area)	
Specific Gravity:	1.08	
Flash Point:	80°C (176°F) to 93.4°C (200°F)	
VOC Content:	<2% by weight	CARB
	<20 g/l	SCAQMD rule 1168
Shelf Life:	From date of manufacture (unopened) : 21 months	Stored at 2-8°C
	21 months	Stored at 20°C
Lot Code Explanation:	For example: 4ED7934	
Printed on bottom of tube	4 = Last digit of year of manufacture E = Month of manufacture (months are sequenced A-N excluding I and L) D = Place of manufacture (D=Dublin) 7934 = Batch number sequence Example: 4ED7934 = May 2014	

## Typical Application Properties:

Application Temperature:	Apply above 10°C (50°F)
Fixture Time:	5 to 45 seconds (see Table 1)*
Handling Time:	Leave undisturbed for at least 5 minutes. For best results, allow full bond strength to develop overnight before handling.
Cure Time:	12 to 24 hours* *Times are dependent on temperature, humidity, porosity of surface bonded and amount of adhesive used

## Typical Cured Performance Properties:

Color:	Clear and Colorless	
Cured Form:	Non-flammable, hard, brittle solid	
Service Temperature:	Up to 82°C (180°F)	
Moisture Resistant:	Yes	
Tensile Shear Strength:	Varies from 2-20 N/mm <sup>2</sup> (290-2900 psi) depending on the substrate (see Table 2)	ISO 4587 12-24 hours cure
Chemical Resistance:	Motor oil, leaded petrol, ethanol, isopropanol and Freon® TA	



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Table 1: Fixture Time to Develop a Shear Strength of 0.1 N/mm<sup>2</sup> at 22°C

Substrates	Time (seconds)
Steel (degreased)	20 to 45
Aluminum	2 to 10
Zinc Dichromate	10 to 30
Neoprene	< 5
Rubber, Nitrile	< 5
ABS	1 to 2
PVC	3 to 10
Polycarbonate	5 to 10
Phenolic	< 2
Wood (Balsa)	< 1
Wood (Oak)	10 to 30
Wood (Pine)	10 to 20
Chipboard	5 to 10
Fabric	10 to 20
Leather	5 to 10
Paper	5 to 10

Table 2: Lap Shear Strength Results after 72 hours at 22°C

Substrates	Shear Strength	
	psi	N/mm <sup>2</sup>
Aluminum (etched)	290 to 1600	2 to 11
Steel (grit blasted)	2500 to 3500	17 to 24
Zinc Dichromate	70 to 290	0.5 to 2
ABS	1000 to 1300	7 to 9
PVC	1000 to 2000	7 to 16
Polycarbonate	1000 to 1600	7 to 11
Phenolic	150 to 730	1 to 5
Neoprene	150 to 290	1 to 2
Rubber, Nitrile	150 to 290	1 to 2

**Directions:**

**Tools Typically Required:**

Tissue paper

**Safety Precautions:**

Wear gloves and wash hands after use. Protect work area.

**Preparation:**

Surfaces must be clean, close fitting with no gaps, dry and free from oil, wax and paint. Protect work area. For best results, lightly roughen smooth surfaces. Pre-fit parts to be joined.

**Application:**

Twist the cap counter clockwise from the nozzle and pull off. Apply the adhesive sparingly to one surface only using approximately one drop per square inch of surface. Press surfaces together immediately. Hold in place for 5 to 30 seconds until bond sets. Do not reposition parts. Clean tip of tube immediately after use with tissue and replace the cap by twisting clockwise. Leave parts undisturbed for at least 10 minutes for increased strength. For full bond strength, leave parts to cure for 24 hours.

**Clean-up:**

After cleaning, wet any tissue used for wiping off glue with water and dispose of. When cleaning up larger quantities of uncured adhesive, apply water and allow to cure and then scrape up. Note this may result in damage to the surfaces. Cured adhesive may be cut away with caution using a sharp blade, removed with acetone or with boiling water. Note: Acetone is highly flammable and may not be suitable for use on all materials, test surface first. Follow manufacturer's instructions.

**Storage & Disposal:**

Not damaged by freezing in the unopened container. Optimal shelf life is achieved when unopened container is stored from 2°C to 8°C (36°F to 46°F). After opening, it is not recommended that the product be stored cold or frozen. Once opened, the product is best stored tightly sealed in a dry location away from heat sources or sun exposure. Humidity and high temperatures may decrease shelf life. Use an approved hazardous waste facility for disposal.

**Label Precautions:**

**CAUTION. BONDS SKIN INSTANTLY.** Do not get in eyes or mouth or on skin. **KEEP OUT OF REACH OF CHILDREN. FIRST AID TREATMENT:** Contains cyanoacrylate. Eyelid bonding: See a doctor. Skin bonding: Soak skin in water and call the Poison Control Center. Do not force apart.

Refer to Material Safety Data Sheet (MSDS) 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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