



TECHNICAL DATA SHEET



SUPER GLUE LIQUID

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DESCRIPTION

Loctite® Super Glue Liquid 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. It dries clear and sets without clamping. Loctite® Super Glue Liquid is resistant to moisture, most chemicals and freezing temperatures.

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

NOT RECOMMENDED FOR:

- Styrofoam™, foam rubber, pure bone china, glass, silicone rubber, polyethylene, polypropylene and polytetrafluoroethylene (PTFE)
- Glazed surfaces
- Use on repairs needing high flexibility
- Use in the dishwasher, oven or microwave

FEATURES & BENEFITS

Feature	Benefits
Dries transparent.....	Invisible repairs
Sets in seconds.....	No clamping required
Self-piercing tube.....	No pins required; Easy to use; No mess application

Item #	Package	Size
1399967	Carded Tube	1 x 2 g
1399963 1363131 1735575	Carded Tubes	2 x 2 g
1710908 1734231 1799409	Carded Tubes	3 x 1 g

DIRECTIONS

Safety Precautions:

Use in a well ventilated area. Wear gloves and wash hands after use.

Preparation:

Surfaces must be clean, dry and free from oil, wax and paint. Protect work area. Lightly roughen smooth surfaces for better adhesion. Pre-fit parts to be joined.

Application:

In a clockwise direction, screw the cap and nozzle assembly down all the way to the tube shoulder, puncturing the tube. Remove the cap counter clockwise from the nozzle. 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 15 to 30 seconds until bond sets. Do not reposition parts. Clean tip of tube immediately after use with tissue and replace the cap. Leave parts undisturbed for at least 5 minutes. For full bond strength, leave parts undisturbed overnight.

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 AND DISPOSAL

Not damaged by freezing in the unopened container. Optimal shelf life is achieved when unopened container is stored from 36°F to 46°F (2°C to 8°C). 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

WARNING: EYE AND RESPIRATORY IRRITANT. BONDS TO SKIN IN SECONDS.
 Contains Cyanoacrylate. May cause allergic skin reaction. Skin contact through clothing may cause burns. Avoid contact with skin and eyes. In case of eye contact, flush with water for 15 minutes; call a physician. For skin contact, flush with water. For ingestion, do not induce vomiting; call a physician. If spilled on clothing, flush with large quantities of water.
KEEP OUT OF 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>	Clear and colorless	<u>Application Temperature:</u>	Do not apply below 50°F (10°C)
<u>Appearance:</u>	Liquid gel	<u>Odor:</u>	Sharp, irritating odor (Use in a well ventilated area)
<u>Base:</u>	Ethyl Cyanoacrylate	<u>Fixture Time:</u>	5 to 45 seconds (see Table 1)*
<u>Specific Gravity:</u>	1.08	<u>Handling Time:</u>	Leave undisturbed for at least 5 minutes. For best results, leave undisturbed overnight to allow full bond strength to develop.
<u>Flashpoint:</u>	176°F to 200°F (80°C to 93.4°C)	<u>Full Cure Time:</u>	12 to 24 hours*
<u>VOC Content:</u>	2% by weight (< 20 g/L)		
<u>Shelf Life:</u>	From date of manufacture (unopened):		
Stored at 36-46°F:	21 months		
Stored at 68°F:	21 months		
<u>Lot Code Explanation:</u>	#YDDDX		
	# = Disregard		
	Y = Last Digit of Year of Manufacture		
(Lot code imprinted on crimped end of tube)	DDD = Day of manufacture based on 365 days in a year		
	X = Disregard (may not appear on all)		
	For example: #3061		
	= 61 st day of 2013		
	= March 2, 2013		

Typical Cured Performance Properties

<u>Color:</u>	Clear and Colorless
<u>Cured Form:</u>	Non-Flammable, hard, brittle solid
<u>Service Temperature:</u>	Up to 180°F (82°C)
<u>Moisture Resistance:</u>	Yes
<u>Bond Strength (Tensile Shear, ISO 4587):</u>	Varies from 290 to 2900 psi (2 to 20 N/mm ²) in 12-24 hours, depending on the substrate (see Table 2)

Table 1: Fixture time to develop a shear strength of 14.5 psi (0.1 N/mm²) at 72°F/50% RH:

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 72°F:

Substrates	Shear Strength	
	psi	N/mm ²
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