

Metal Glue

DESCRIPTION

LOCTITE® Metal Glue contains a revolutionary Flextec® formulation that can bond metal with a variety of materials when projects or repairs require higher viscosity, excellent bond strength, and resistance to extreme conditions. It is a versatile, gap-filling adhesive that bonds, seals, and repairs almost all materials. It is ideal for bonds subject to harsh or extreme conditions or for situations where constant flexing is a problem. It can be used indoors or outdoors, has excellent adhesion, and high initial grab that cures quickly. Loctite Metal Glue dries clear and creates a flexible and durable bond which is dishwasher safe and has excellent resistance to vibration, impact, moisture, UV, and extreme temperatures, offering long reliability anywhere it is used.

Available As:

Item #	Package	Size
3070838	Carded Tube	0.60 fluid ounce (18mL)

FEATURES & BENEFITS

- Bonds metal to common building materials
- Dries clear
- No drip gel
- Gap filling

RECOMMENDED FOR

LOCTITE® Metal Glue is ideal for DIY projects and repairs in and around the home. It is compatible with many porous and non-porous materials such as metals¹ (aluminum, stainless steel, steel, copper, brass, bronze, zinc, etc.), glass, concrete, ceramic, tiles, natural stones, wood, cork, paper, cardboard, textiles, leather, varnished surfaces¹, chipboard, MDF, fiberglass reinforced polyester, rigid PVC, polycarbonate, sanded ABS, and polystyrene foam including EPS, XPS and Polyiso types.

¹See limitations below

LIMITATIONS

- Not for use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE), and rubber
- Before application, carry out tests to ensure the compatibility with non-ferrous metals such as aluminum, copper, bronze, and brass as well as with different coatings such as paints, varnishes, and powder coatings. Variations in composition may affect adhesion
- Should not be considered for direct or indirect food contact
- Not suitable for applications with prolonged water immersion
- Not suitable for use in aquariums or potable water systems
- Not suitable for applications requiring solvent resistance
- Not suitable for applications requiring temperatures below -58°F (-50°C) and above 248°F (120°C)
- If bonding two non-porous surfaces, (i.e., metal to metal or plastic to plastic) surfaces can be pre-wetted with a damp cloth before applying the adhesive. Avoid wetness, pooling water or water drop formation, to optimize cure time.

COVERAGE

For a 0.60 fluid ounce (18ml) tube: Not applicable for this product

TECHNICAL DATA

Typical Uncured Physical Properties:

Color:	Colorless, Clear	Specific Gravity:	1.17
Appearance:	High Viscosity Liquid	VOC Content:	14.46% by weight CARB 131.6 g/L SCAQMD
Base:	Silane moisture-curing polymer	Flash Point:	154.4 - 161.6°F (68 - 72°C)
Viscosity:	150,000 – 200,000 cps	Odor:	Minimal

Typical Application Properties:

Application Temperature:	Apply between 41°F (5°C) to 104°F (40°C)
Open Time:	3-5 minutes*
Handling Time	Leave undisturbed for at least 8 hours (For best results allow full bond strength to develop overnight)
Full Cure Time:	Approximately 24 hours*(for every 2mm when gap filling)

*Time is dependent on temperature, humidity and thickness of adhesive applied

Typical Cured Performance Properties:

Color:	Clear and Colorless	Shelf Life:	18 Months from date of manufacture unopened
Water Resistant:	Yes	Lot Code:	DDDY # (stamped on crimp of tube) DDD – Date of manufacture based on 365 days of the year Y – year manufactured # = do not use Example: 1245 = May 4, 2025
Paintable:	Yes (See page 3 for details)		
Service Temperature:	- 58°F (-50°C) to 248°F (120°C) <i>Note: Exposure to temperatures above 122°F (50°C) will cause yellowing.</i>		
Cured Form	Non-flammable, flexible solid		

Tensile Shear Strength: 1-inch overlaps cured for 7 days at 73°F (23°C)

Metal to Metal (dampened)

Aluminum to Aluminum	360 psi
Cold Rolled Steel (CRS) to CRS	373psi
Stainless steel to itself	323 psi

DIRECTIONS

Tools Typically Required:

Wear gloves and wash hands after use.

Safety Precautions:

Use in a well-ventilated area. Protect work area before and during use. Wear gloves (nitrile gloves recommended) and wash hands after use.

Preparation:

Use between 41°F (5°C) to 104°F (40°C). Protect work area. Surfaces to be glued must be sound, clean, dry (see Application below) and free of grease, dust, old adhesive residue, paint and other contaminants such as plasticizers and mold release agents. Remove contaminants with alcohol or acetone (tests surfaces for compatibility before). For improved adhesion, lightly sand very smooth or glossy surfaces and clean thoroughly. Pre-fit all materials before applying adhesive. When bonding two non-porous surfaces, dampen surfaces lightly before applying adhesive. Mask off the adjacent areas with tape before gluing if necessary. Remove cap.

DIRECTIONS

Application:

Apply thin layer of adhesive to one surface. Immediately position and press parts firmly together within 5 minutes. For difficult bonds, clamp parts or use tape to hold pieces together. Do not move or use parts for at least 8 hours. Full bond strength is achieved in 24 hours. Cure times will increase with lower temperature.

Gap-Filling: Apply in a thick layer to fill gaps up to 5mm max. Fix or clamp the items together for 8 hours and do not touch or move them. In 24 hours, 70% of full adhesion and bond strength is achieved. Cure time is 24 hours for every 2mm of adhesive.

To Get High Initial Grip: Apply on both surfaces in thin and even layers. Leave for 3-5 minutes. Use as a contact cement. After LOCTITE Metal Glue has become tacky, bring the items together immediately and press firmly. Fixation is not necessary in many cases. Note that final strengths decrease when used as a contact glue.

Two Non-Porous Surfaces: Bonding two non-porous surfaces can result in a slower cure time and is generally not recommended. If bonding two non-porous surfaces, surfaces can be wetted using a damp cloth, taking care to avoid wetness, pooling water or drop formation, to optimize cure time.

Clean-up

Clean tools and adhesive residue immediately after use with mineral spirits. Follow manufacturer's precautions for use and hazards. Cured adhesive may be carefully cut away with a sharp-edged tool. Cured adhesive cannot be removed from clothing and is not soluble in any solvent.

STORAGE & DISPOSAL

NOT DAMAGED BY FREEZING. Store tightly closed at room temperature. Avoid temperatures below 41°F (5°C) and above 122°F (50°C). Close the tube tightly immediately after each use. Exposure to high humidity during storage will reduce shelf life. To dispose of unwanted product, squeeze out remaining material, allow to dry and discard with domestic waste. Dispose of non-hardened product residues according to the applicable local regulations. Large product amounts must be disposed of separately. The empty packaging can be recycled.

LABEL PRECAUTIONS

WARNING! MAY CAUSE SKIN AND EYE IRRITATION. Contains trimethoxysilane and amines. May be harmful if directly inhaled or swallowed. Prolonged or repeated skin contact may cause sensitization. Persons with previous allergic reactions to amines should avoid contact with product. Keep away from heat, sparks and flame. Do not breathe vapors. **Use only in well-ventilated area.** Avoid contact with eye, skin and clothing. Prolonged or repeated skin contact may cause dermatitis. Wash hands after using. Wear gloves when applying product. **DO NOT TAKE INTERNALLY.** Methanol is released during application and cure, which may cause dizziness, headache or nausea.

FIRST AID: For eye contact flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wash affected area with soap and water immediately. If affected by inhalation, remove to fresh air and get medical attention. If ingested, do not induce vomiting. Call a physician or Poison Control Center immediately.

KEEP OUT OF REACH OF CHILDREN.



WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

Refer to the Safety Data Sheet (SDS) 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. Henkel recommends purchasers/users should test the products to determine acceptable quality and suitability for the intended use. All adhesive/sealant applications should be tested under simulated or actual end use conditions to ensure the adhesive/sealant meets or exceeds all required project specifications. Since assembly conditions may be critical to adhesive/sealant performance, it is also recommended that testing be performed on specimens assembled under simulated or actual production conditions. 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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www.loctiteproducts.com



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