



TECHNICAL DATA SHEET



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DESCRIPTION

Loctite® Go2® Gel contains a revolutionary FLEXTEC® formulation that bonds multi-materials when projects or repairs require higher viscosity, tremendous 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 and outdoors, has excellent adhesion and high initial grab that cures quickly. Loctite Go2 Gel 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.

RECOMMENDED FOR

DIY repairs and modeling work in and around the house. 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/Styrofoam™ . ¹See limitations below.

NOT RECOMMENDED FOR

- Polyethylene (PE), polypropylene (PP) and polytetrafluoroethylene (PTFE) plastics, metal-to-metal (one surface should be porous) or 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.
- Applications with prolonged water immersion
- Aquariums or potable water systems
- Applications requiring service temperatures below -58°F (-50°C) and above 248°F (120°C)
- Applications requiring solvent resistance
- Archival applications

Item #	Package	Size
1832982	Carded Tube	0.60 fl. oz. (18 ml)
1872130		

FEATURES & BENEFITS

Feature	Benefits
Extreme temperature resistance.....	All-season use
Water and UV resistant.....	Indoor and outdoor use
No cracking, peeling or shrinking.....	One-time application
Gap filling.....	Excellent for imperfect surfaces
Flexible bonds.....	Flexes with other materials, resists vibration and impact

DIRECTIONS

Safety Precautions:
Well-ventilated area, gloves.

Preparation:
Use between 41°F (5°C) and 104°F (40°C). Protect work area. Surfaces must be clean and free of grease, dust and other contaminants. For improved adhesion, abrade very smooth surfaces (such as metal) prior to cleaning. Remove cap.

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 2 hours. Full bond strength is achieved in 24 hours. Cure times will increase with lower temperatures and humidity and if bonding two non-porous surfaces.

For Gap-Filling: Apply in a thick layer to fill gaps up to 5mm max. Fix or clamp the items together for 1-3 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, Go2 Gel 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 with mineral spirits. Cured adhesive may be carefully cut away using a sharp-edged tool.

STORAGE AND DISPOSAL

Not damaged by freezing. Store tightly closed at room temperature. Avoid temperatures below 41°F (5°C) and above 122°F (50°C). To dispose of any unwanted product, use an approved hazardous waste facility for disposal.

LABEL PRECAUTIONS

WARNING! COMBUSTIBLE. MAY CAUSE SKIN AND EYE IRRITATION. Contains trimethoxyvinylsilane and amines. Keep away from heat, sparks and flames. May be harmful if directly inhaled or swallowed. Methanol is released during application and cure, which may cause dizziness, headache or nausea. Use only in well ventilated areas. Do not breathe vapors. Avoid eye and skin contact. Prolonged or repeated skin contact may cause sensitization. Persons with previous allergic reactions to amines should avoid contact with product. Wash hands after use. Wear gloves when applying product. **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. **DO NOT TAKE INTERALLY. 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	<u>Application Temperature:</u>	41°F (5°C) to 104°F (40°C)
<u>Appearance:</u>	Non-slumping paste	<u>Open Time:</u>	3-5 minutes*
<u>Specific Gravity:</u>	1.174	<u>Handling Time:</u>	2 hours
<u>VOC Content:</u>	< 14.46% by weight (131.6 g/L)	<u>Cure Time:</u>	24 hours* (for every 2mm for gap-filling)
<u>Shelf Life:</u>	12 months from date of manufacture (unopened)		*Times will increase with lower temperatures, low humidity and if bonding two non-porous surfaces (and vice versa)
<u>Lot Code Explanation:</u>	YDDD Y = Last digit of year of manufacture DDD = Day of manufacture based on 365 days in a year For example: 3061 = 61 st day of 2013 = March 2, 2013		

Typical Cured Performance Properties

Color: Clear

Service Temperature: -58°F (-50°C) to 248°F (120°C)

Water Resistant: Yes

Paintable: Yes

Gap-Filling: Up to 5 mm

Tensile Shear Strength:
(7 day cure at 73°F (23°C))

Plastic to Maple:

ABS to Maple:	270 psi (1.86 N/mm ²)
Acrylic (unsanded) to Maple:	284 psi (1.96 N/mm ²)
PVC to Maple:	578 psi (3.99 N/mm ²)
Polycarbonate to Maple:	457 psi (3.15 N/mm ²)
Polystyrene to Maple:	266 psi (1.83 N/mm ²)

Metal (dampened) to Metal:

Aluminum to Aluminum:	360 psi (2.48 N/mm ²)
Cold Rolled Steel to Cold Rolled Steel:	373 psi (2.57 N/mm ²)
Stainless Steel to Stainless Steel:	323 psi (2.23 N/mm ²)