



# TECHNICAL DATA SHEET



**Henkel Corporation**  
Professional and Consumer Adhesives  
Rocky Hill, CT  
Phone 1-800-624-7767  
Fax (440) 250-9661  
[www.henkel.com](http://www.henkel.com) [www.loctiteproducts.com](http://www.loctiteproducts.com)

## DESCRIPTION:

Loctite® Go2® Glue is a true all-purpose glue that delivers the power of two technologies to create Durability & Versatility. Mixing the strength of polyurethane & the versatility of polyoxysilane, it is the ideal formula for your repairing, crafting & building jobs. This technology was developed with Loctite Industrial expertise. Go2 Glue dries crystal clear, does not wrinkle paper and sets with no clamping. Go2 Glue is elastic, shock resistant, non shrinking, fills gaps, water resistant and can be used indoors and outdoors.

## RECOMMENDED FOR:

DIY repairs and modeling work in and around the house. Compatible with many porous and non-porous materials such as aluminum<sup>1</sup>, stainless steel, steel, copper<sup>1</sup>, brass<sup>1</sup>, bronze<sup>1</sup>, concrete, tiles, ceramic, glass, mirror<sup>1</sup>, wood, cork, chipboard, MDF, varnished surfaces<sup>1</sup>, fiberglass reinforced polyester, unfinished leather, linen, paper, cardboard, rigid PVC, polycarbonate, sanded ABS, polystyrene foam, mirrors<sup>1</sup>, natural stones, concrete. <sup>1</sup> See limitations below.

## LIMITATIONS:

- Not for use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE), ABS and rigid polystyrene
- Before application, carry out tests to ensure the compatibility of Loctite Go2 Glue 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.
- Loctite Go2 Glue is only compatible with mirrors whose reflection and protective coating complies with DIN 1238 5.1 and DIN EN 1036. See application instructions.
- The cured product is water-resistant, but not suitable for water immersion



## FEATURES & BENEFITS:

Item #	Package	Size
1624417	Carded Bottles 6pk in tray	1.75 fl oz
1661510 1698715 1729854	Carded Bottles 6pk in box	1.75 fl oz
1624412	Carded Bottles 6pk in tray	3.5 fl oz
1739049	Carded Bottles 6pk in tray	5.5 fl oz

Feature	Benefits
Dries crystal clear.....	Invisible repairs
Thick consistency.....	Less mess, reduces clean-up
Temperature resistant.....	Great for applications requiring short term high temperature resistance up to 176°F (80°C)
Versatile and durable.....	Resistant to impact, shock, vibration, water and temperature extremes

## COVERAGE

0.7 fl oz per ft<sup>2</sup> or 7.7 fl oz / m<sup>2</sup> when applied to one surface only  
Note: The required amount depends on the substrate porosity and thickness of any gap

## DIRECTIONS

**Safety Precautions:**  
Wear gloves and wash hands after use.

**Preparation:**

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. To open, rotate cap counter-clockwise.

**Application:**

Apply a thin layer of adhesive to one surface. Bond parts immediately after applying the adhesive and hold or clamp parts together (before skin formation) for at least 30 minutes. For best results allow 24 hours cure before subjecting to stress. Unlike other adhesives, high pressure during curing is not necessary. Very porous materials will require a thicker layer of adhesive and application to both surfaces may be required.

Loctite® Go2® Glue cures by absorbing moisture into the bond line from the ambient air (air humidity or water vapor) or from the substrate. If both surfaces to be joined are non porous (i.e. metal to metal or plastic to plastic) then they can only be glued by pre-wetting both surfaces with a damp cloth before applying the adhesive. Avoid wetness, pooling water or water drop formation. For large surface areas make sure the moisture film does not dry off before applying the adhesive. Absorbent surfaces are normally water-permeable and do not require pre-wetting; however, the curing process can be considerably accelerated for both absorbent and non-absorbent substrates if the surfaces are pre-wetted by wiping the areas to be glued with a damp cloth before applying the adhesive. The adhesive can be applied to damp surfaces. The adhesive will reach its maximum strength after it has fully cured and the substrates have fully dried.

After setting, the adhesive can be painted, especially with water based acrylic paint.

**Mirror bonding:** Be very careful not to scratch or damage the back coating of the mirror. Protect surrounding areas and floors from drips, squeeze-outs etc. Apply the adhesive to the back of the mirror or the substrate in vertical beads approximately 1/8 inch wide and approximately 1 -2 inches apart. Do not place the adhesive too close to the edge to prevent squeeze-out (leave approximately 1-2 inches from the edges). Within 5-8 minutes place firmly up against the wall and tape in place until cured. Support the bottom of the mirror to prevent slippage until the adhesive cures. For mirrors larger than 1 square foot, this product must be used with a permanent support system. Place mirror into support channels or hangers and press in place within 5-8 minutes. Tape or brace the top of the mirror until the adhesive has set at least 48 hours. For non porous surfaces, longer curing time will be required. Do not try to reposition the mirror once in place. If sealing the edges, wait a minimum of 7 days. Curing time will depend on temperature, humidity, type of substrate and amount of air that can reach the adhesive.

**Clean-up:**

Clean tools and adhesive residue immediately after use with alcohol, acetone or cleaner's naphtha. Cured sealant 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 AND DISPOSAL**

Store above freezing in a cool and dry place. Avoid direct sunlight. Close the tube tightly immediately after each use. Exposure to high humidity during storage will reduce shelf life. Exposure to high temperatures during storage (> 122°F, 50°C) will cause the product to yellow in the bottle.

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! COMBUSTIBLE. MAY CAUSE SKIN AND EYE IRRITATION.** Contains trimethoxysilanes. Keep away from heat, sparks and flame. May be harmful if inhaled or swallowed. Methanol is released during application and cure, which may affect the nervous system causing dizziness, headache or nausea. Use in a well ventilated area. Do not breathe vapors. Avoid eye and skin contact. Prolonged or repeated skin contact may cause dermatitis. Wash hands after using. 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 with soap and water. 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 INTERNALLY. KEEP OUT OF REACH OF CHILDREN.**

**WARNING:** This product contains chemicals known to the State of California to cause cancer.

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>	Transparent	<u>Application Temperature:</u>	Apply between 41°F (5°C) to 104°F (40°C)
<u>Appearance:</u>	Liquid gel	<u>Odor:</u>	Minimal
<u>Base:</u>	Silane curing polymer	<u>Repositioning Time</u>	5 minutes*
<u>Specific Gravity:</u>	1.1 at 77°F (25°C)	<u>Open Time:</u>	8 - 15 minutes* at 73°F (23°C), 50% R.H.
<u>Viscosity @ 73°F</u>	8,000 to 20,000 cps	<u>Clamp Time:</u>	30 minutes minimum
<u>VOC content:</u>	8.7% by weight (278.5 g/l calculated)	<u>Cure Time:</u>	Approximately 24 hours*
<u>Shelf Life:</u>	18 months from date of manufacture (unopened, stored at 73°F (23°C) and 50% relative humidity)	*Times are dependent upon temperature, humidity, the amount of adhesive used and the nature of the substrate being bonded	
<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: 13111 = 111 <sup>th</sup> day of 2013 = April 12 <sup>th</sup> , 2013		

**Typical Cured Performance Properties**

<u>Color:</u>	Transparent
<u>Service Temperature:</u>	
Short Term:	-40°F (-40°C) to 176°F (80°C)
Longer Term:	-40°F (-40°C) to 122°F (50°C)
	Note: Exposures above 122°F (50°C) will cause yellowing
<u>Water Resistance:</u>	Yes
<u>Paint Compatibility:</u>	Loctite® Go2® Glue is compatible with acrylic paints, polyurethane-based varnishes and alkyd resin varnishes. When using alkyd resin paints drying may be delayed. It is not compatible with one component polyurethane paints.

Tensile Shear Strength  
 (Average values, 7 days cure, clamped)

Pine to Pine	392 psi
Maple to Maple	493 psi
Maple to Aluminum	375 psi
Aluminum to Aluminum	243 psi
Cold rolled steel to itself	189 psi
Maple to Stainless steel	491 psi
Stainless steel to itself	496 psi
Maple to PVC (hard)	218 psi
PVC to PVC (hard)	109 psi
Maple to polycarbonate	473 psi
Maple to Acrylic (sanded)	234 psi
Maple to ABS	119 psi
Maple to ABS (sanded)	371 psi
Maple to Fiberglass (sanded)	450 psi

Peel Strength  
 (Average values, 7 days cure)

Canvas to canvas	4 lb/inch
Canvas to pine	11 lb/inch
Corduroy to maple	6 lb/inch
Felt to pine	9 lb/inch
Unfinished leather to pine	8 lb/inch

Specifications: Conforms to ASTM D4236

Tensile Shear Strength  
 (Average values, 3 hr water immersion, 7 day cure)

Maple to Maple	
Maple to Aluminum	471 psi
	370 psi