



Toll Free: 87 PERMATEX
(877-376-2839)

10 Columbus Blvd., Hartford,
Connecticut 06106

6875 Parkland Boulevard, Solon
Ohio 44139

Technical Data Sheet

Permatex® ScrewGlue

Industrial

PRODUCT DESCRIPTION

Permatex® ScrewGlue is a medium strength, threadlocking adhesive designed to lock screws, nuts, and bolts in place. This product is a single component, anaerobic liquid that cures when confined in the absence of air between close fitting metal surfaces, ideal for all 6mm to 25mm (1/4 inch to 1 inch) diameter threaded assemblies. Permatex® ScrewGlue excels at sealing metal-to-metal threads for both interior and exterior applications, due to the excellent chemical and temperature resistance. The cured assembly is easily adjustable or removable with hand tools.

PRODUCT BENEFITS

Improved Reliability

- Forms lasting bond that resists heat, vibration, and chemicals
- Seals metal threads to prevent rust and leaks
- Increases holding power of screws, nuts, and bolts
- Cures without cracking or shrinking
- Adjusts or disassembles with hand tools

Easy Application

- Single component
- No mess squeeze tube applicator
- Low viscosity, yet resists dripping during assembly
- Will not cure outside threaded assembly for easy clean-up
- No torque compensation required during assembly

TYPICAL APPLICATIONS

Prevents loosening and leakage of metal threaded fasteners. Particularly suitable for metal screws and holes such as:

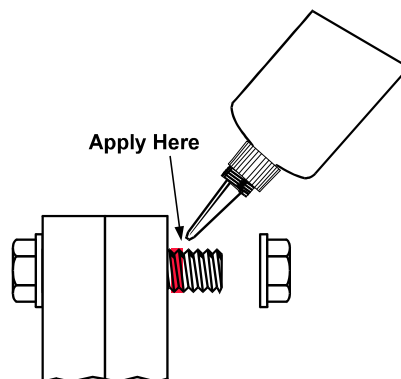
- Door knobs
- Cabinet handles
- Interior and exterior furniture
- TV and photo mounts
- Drywall anchors
- Kitchen utensils
- Pots and pans
- Lawnmowers and yard trimmers
- BBQ grills
- Kids toys
- Hunting and outdoor gear
- Sports equipment

DIRECTIONS FOR USE

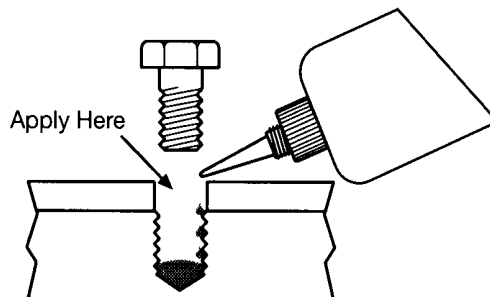
For assembly

1. Clean all threads (bolt and hole) with a cleaning solvent such as rubbing alcohol or nail polish remover (acetone) and allow to dry.
2. Shake ScrewGlue thoroughly before use.

3. **For Through Holes**, apply 2-3 drops of ScrewGlue onto the engagement area (usually 5-6 threads) of the screw or bolt.



For Blind Holes, apply by dripping several drops of ScrewGlue onto the female threads of the hole. As threads are engaged, compressed air forces the product upwards into the threads.



4. Assemble parts and tighten to recommended torque.
5. Wipe away any bleed-out or spills with a clean cloth and small amount of cleaning solvent if necessary

For Disassembly

1. Remove with standard hand tools.
2. In the rare instance where hand tools do not work, because of excessive engagement length, apply localized heat to nut or bolt to approximately 450°F (232°C).
3. Disassemble while hot.

For Reassembly

1. Remove loose product from nut and bolt using a stiff wire brush and cleaning solvent.
2. Apply Permatex® Surface Prep Activator to all threads, regardless of metal type and allow to dry.
3. Apply, assemble, and tighten as usual.

NOT FOR PRODUCT SPECIFICATIONS.

THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.

PLEASE CONTACT PERMATEX, INC., TECHNICAL SERVICE DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS FOR YOUR SPECIFIC APPLICATION.
PERMATEX, INC., HARTFORD SQUARE NORTH, 10 COLUMBUS BOULEVARD, HARTFORD, CT 06106 PHONE - (1-877)PERMATEX

PROPERTIES OF UNCURED MATERIAL

	Typical Value
Chemical Type	Anaerobic Dimethacrylate Ester
Appearance	Opaque Blue Fluorescent Liquid
Specific Gravity, g/ml	1.05
Viscosity @ 25°C, mPas (cP)	800 to 1,600
Flash Point (TCC), °C (°F)	>93 (>200)

TYPICAL CURING PERFORMANCE

Cure speed vs. substrate

The rate of cure will depend upon the type of material used. Permatex® ScrewGlue Repair Gel will react faster and stronger with **Active Metals**. However, **Inactive Metals** will require the use of Permatex® Surface Prep Activator to obtain maximum strength and cure speed at room temperature.

Active Metals	Inactive Metals
Soft Steel Iron	Bright Platings
Copper	Anodized Surfaces
Brass	Titanium
Manganese	Zinc
Bronze	Pure Aluminum
Nickel	Stainless Steel
Aluminum Alloy	Cadmium

Cure speed vs. temperature

The rate of cure will depend on the ambient temperature. **Full cure** is attainable in 24 hours at room temperature, 72°F (22°C), or 1 hour at 200°F (93°C).

PERFORMANCE OF CURED MATERIAL

(After 24 hrs. at 72°F on 3/8-16 steel Grade 8 Nuts and Grade 5 bolts)

	Typical	
	Value	Range
Breakaway Torque, in-lb (Nm)	115 (13)	70 to 150 (8 to 17)
Prevail Torque, in-lb (Nm)	53 (6)	25 to 60 (3 to 7)

Breakaway torque is the force required to initiate the fastener movement; prevail torque is the force required to disassemble the fastener once breakaway torque is reached.

TYPICAL ENVIRONMENTAL RESISTANCE

Temperature Resistance

Product temperature range from -65°F to +300°F (-54°C to +149°C). The breakaway and prevailing torque values decrease as temperature increases; however, the assembly remains effective against vibration and leakage.

Chemical / Solvent Resistance

Aged under conditions and tested at 72°F (22°C)
% Initial Strength retained after time

	Temp	500 hr	1000hr
Hot air	150°C		100
Motor oil (SL)	125°C		100
Gasoline	23°C	100	
Antifreeze	87°C	60	
Ethanol	23°C	55	
Acetone	23°C	65	

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

ORDERING INFORMATION

Part Number	Container Size
28206	6mL squeeze tube, carded

STORAGE

Products shall be ideally stored in a cool, dry location in closed containers at a temperature between 14°F (-10°C) to 86°F (30°C). Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container.

NOTE

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. **Permatex, Inc. specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Permatex, Inc. products and disclaims any liability for consequential or incidental damages of any kind, including lost profits.** This product may be covered by one or more United States or foreign patents or patent applications.