

# Technical Data Sheet

## E6000 JEWELRY & BEAD



ADHESIVE (Clear)



40.2 G

Not all styles/sizes/colors available in all areas.

ISO 9001:2015  
Compliant  
Quality Management  
Systems

### PRODUCT DESCRIPTION

The BRAND You Want With The PRECISION You Need. E6000 JEWELRY & BEAD is perfect for securing knots and permanently attaching most any type of stone, gem, crystal or bead to jewelry findings and base metal, silver, copper and gold jewelry pieces. Cures clear with maximum flexibility and its waterproof!

### WHERE TO USE / APPLICATIONS

Permanently bonds almost any type of metal, stones, gems, crystals or beads to jewelry findings.

### FEATURES AND BENEFITS

**FLEXIBLE** – does not become brittle in cold weather

**EASY TO USE** – precision tips place the adhesive where you want it

**MULTI-PURPOSE** – precision applications are now simple for many jewelry and other non-craft projects

**VERSATILE** – use on most any jewelry gems or stones, crystal or bead

**EXTREMELY STRONG** – lab testing results prove that E6000 Jewelry & Bead adhesive forms a stronger bond on most materials used around the home and by crafters

**WATERPROOF** – remains secure even when exposed to water

### TECHNICAL INFORMATION

PROPERTIES	
UNCURED MATERIAL	
Color:	Clear
Solvent:	Perchloroethylene
Non-flammable:	Yes (cured and uncured material)
Density:	1.32 +/- 0.01 g/mL
Solids:	30% by weight, 40% by volume
Viscosity:	50,000 cps
Tack time:	~ 4 minutes
Set time:	20 minutes*
Full cure time:	Thin film: 24 hours / Thick film: 48-72 hours
Storage:	Product may thicken when stored in colder temperatures. If product thickens from colder temperatures, warm to room temperature before use.
Application Temp:	Ideal application temperature range 50 to 90 °F (10 to 32 °C).
Freeze/thaw stability:	Stable, allow product to warm to room temperature before using.
Shelf life:	2 years (unopened)

\*Depending on material, humidity and temperature.

CURED MATERIAL	
Chemical resistance:	Excellent to water, dilute bases
Hardness:	80 Shore A
Dielectric strength:	400V/mil (ASTM D-149); this is the maximum voltage that can be applied to a given material without causing it to break down
Tensile strength:	246,100 gf/cm <sup>2</sup> (ASTM D-412)
Elongation:	900% (ASTM D-412)
Service temperature:	Fully cured adhesive can withstand temperatures from -40 to 180 °F (-40 to 82 °C) intermittently.

## E6000 JEWELRY & BEAD

### ADHESIVE (Clear)

ADHESION TEST – 180° Peel Strength Test - ASTM D 903				
Aluminum	Birch (wood)	Glass	PVC	Steel
35 pli	40 pli	34 pli	38 pli	45 pli

Avg. Max Load Measured in pli (pounds per linear inch)

#### CHEMICALS THAT HAVE LITTLE OR NO EFFECT ON E6000 JEWELRY & BEAD

<p>Acetic acid (5% and 10%)            Ammonium hydroxide (3.4%)            Ammonium nitrate (50%)            Antifreeze            Beer (3.2% alcohol by volume)            Boric acid (3.1%)            Distilled water            Hydraulic oil            Lactic acid (3.8%)            Milk (fresh, tested at 4.44 °C)            Motor oil (30w)            Nitric acid (10% and 20%)            Oxalic acid (3.1%)            Phosphoric acid (30% and 60% as P<sub>2</sub>O<sub>5</sub>)            Potassium hydroxide (3.4%)            Sodium carbonates (2.7%)            Sodium chloride (10%)            Sulfuric acid (3% and 10%)            Wine (20% alcohol by volume)</p>	<p>E6000 JEWELRY &amp; BEAD exhibits excellent resistance to water, dilute acids and dilute bases. Thin films of E6000 JEWELRY &amp; BEAD were immersed in various chemicals for two weeks and exhibited weight gains of less than 2% and tensile strength loss of less than 10%. These chemicals are listed on the left. All percentages are given by weight unless otherwise noted.</p>
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#### SOLVENTS THAT DISSOLVE E6000 JEWELRY & BEAD

<p>Chevron solvent 1100            Chlorothane NU            Cyclohexane            Gasoline            Perchloroethylene            Propyl acetate            Toluene</p>	<p>These are common solvents that dissolve E6000 JEWELRY &amp; BEAD when hardened samples were immersed. The dissolution with these solvents was not instantaneous and therefore does not preclude usage in all cases. Applications where an occasional splash or brief exposure is expected may be acceptable. Test a small area before full use.</p>
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#### DIRECTIONS and APPLICATION NOTES

Read directions and test small area before use.

1. Surface should be clean, dry and free of dirt. For best results, lightly roughen surface before use.
2. Puncture seal in neck of tube using a precision tip. Replace cap. Screw precision tip into top of tube cap. Replace with fresh tip as needed.
3. Squeeze the tube from the bottom and roll up the tube as it empties.
4. Ideal application temperature range is 50 to 90 °F (10 to 32 °C). However, fully cured adhesive can withstand temperatures from -40 to 180 °F (-40 to 82 °C) intermittently.
5. Apply directly to surfaces to be bonded or repaired. When finished, unscrew precision tip and replace it with the provided plug.
6. Allow 24 hours for curing. Depending on materials and temperature, maximum strength may not be reached for 48 to 72 hours.
7. For future easy cap removal, apply a thin coat of petroleum jelly to the threads of the tube before replacing the cap.
8. Clean uncured adhesive with acetone or citrus-based solvents. Cured material may be removed by cutting or scraping.

Note: May damage finished surfaces. Avoid such contact until completely dry. Not recommended for use on polystyrene, polyethylene, polypropylene, Styrofoam™ on paper products. Not recommended for any items that come into contact with food, drinking water or animals.

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**E6000 JEWELRY & BEAD**

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ADHESIVE (Clear)

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**HEALTH and SAFETY**

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This product contains perchloroethylene. Before working with this product, read and become familiar with information concerning hazards, proper use and handling.

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**LIMITED WARRANTY**

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The product is warranted against any defect in materials or workmanship under normal use for a period of 180 days after the date of purchase. The product is also warranted under any implied warranties provided under applicable law, including, without limitation, the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, for a period of 180 days after the date of purchase. The manufacturer will not accept liability for more than product replacement. This warranty covers only the original buyer of the product. For warranty service, the buyer should contact the store where the product was purchased. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. This warranty gives you specific legal rights, and you also have other rights, which vary from province to province.