

# Technical Data Sheet



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# E6000® INDUSTRIAL ADHESIVE

Self-Leveling Formula (Black)

## PRODUCT DESCRIPTION

E6000® is a unique SELF-LEVELING, non-flammable industrial adhesive formulated to meet high-performance requirements. It permanently adheres to more surfaces than virtually any other adhesive, providing exceptional adhesion to wood, metal, glass, fiberglass, ceramics, masonry, concrete, asphalt, leather, rubber, PVC, neoprene, vinyl and many plastics. E6000 maintains its flexible bond in extreme cold temperatures, will not crack or become brittle and is excellent for bonding items subject to vibration. For applications that are exposed to direct sunlight, paint over E6000 after curing or use E6800 UV formula.

## WHERE TO USE / APPLICATIONS

- general facility/building repair
- flooring repairs
- locking down fasteners against vibration
- trailer repair
- auto upholstery/paneling/molding
- and much more!

## FEATURES AND BENEFITS

**EASY TO USE** – easy squeeze tube (1.0 or 3.7 fl oz tube) or cartridge gun (10.2 fl oz cartridge)

**FLEXIBLE** – does not become brittle in cold weather and bonds items subject to vibration

**CHEMICAL RESISTANT** – safe for applications exposed to dilute acids and dilute caustics

**ABRASION RESISTANT** – great for bonding objects subject to normal wear

**PAINTABLE** – paint to match surrounding area or to make UV resistant

## TECHNICAL INFORMATION

| PROPERTIES – Low / Medium / High Viscosity |  |
|--|--|
| UNCURED MATERIAL                           |  |
| Color:                                     | Black  |
| VOC:                                       | 2.0 grams/liter  |
| Solvent:                                   | Perchloroethylene  |
| Non-flammable:                             | Yes (uncured liquid state)   |
| Density:                                   | 11.0 +/-0.1 lbs/gal  |
| Solids:                                    | 30% by weight, 40% by volume   |
| Viscosity:                                 | 50,000 cps low / 100,000 cps medium  |
| 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 is 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.

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| CURED MATERIAL       |   |
|----------------------|---|
| Chemical resistance: | Excellent to dilute acids and 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:    | 3500 lb/in <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.                           |

| 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®

|   |  |
|---|--|
| Acetic acid (5% and 10%)  | E6000® exhibits excellent resistance to dilute acids and dilute bases. Thin films of E6000 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. |
| 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 40 °F)                                   |  |
| 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)                                    |  |

### SOLVENTS THAT DISSOLVE E6000®

|                      |   |
|----------------------|---|
| Chevron solvent 1100 | These are common solvents that dissolve E6000® 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. |
| Chlorothane NU       |   |
| Cyclohexane          |   |
| Gasoline             |   |
| Perchloroethylene    |   |
| Propyl acetate       |   |
| Toluene              |   |

### DIRECTIONS and APPLICATION NOTES

- Read directions and test small area before use.
- Step 1 Surface should be clean, dry and free of dirt. For best results, lightly roughen surface before use.
  - Step 2 TUBE: Puncture inner seal using pointer cap (if tube has a foil seal). CARTRIDGE: Trim end of nozzle. Puncture inner seal.  
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.
  - Step 3 Apply directly to surfaces to be bonded or repaired.
  - Step 4 Allow 24 hours for curing. Depending on materials and temperature, maximum bond strength may not be reached for 48 to 72 hours.
  - Step 5 TUBE: For future easy cap removal, apply a thin coat of petroleum jelly to the threads

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## E6000<sup>®</sup> INDUSTRIAL ADHESIVE

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- of the tube before replacing the cap. CARTRIDGE: For prolonged storage after opening, cover or plug the opening of the nozzle.
- Step 6 Clean uncured adhesive with acetone or citrus-based solvents. Cured material may be removed by cutting or scraping.

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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. SDS is available on line at:

[eclecticproducts.com/downloads/sds-e6000-black-english.pdf](http://eclecticproducts.com/downloads/sds-e6000-black-english.pdf);

[eclecticproducts.com/downloads/sds-e6000-black-french.pdf](http://eclecticproducts.com/downloads/sds-e6000-black-french.pdf);

[eclecticproducts.com/downloads/sds-e6000-black-spanish.pdf](http://eclecticproducts.com/downloads/sds-e6000-black-spanish.pdf);

to request a hard copy of the SDS, please send an e-mail to [msds@eclecticproducts.com](mailto:msds@eclecticproducts.com) or call 800.333.9826.

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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 state 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. This warranty covers only the original buyer of the product. For warranty service, the buyer should contact the store where the product was purchased, or write Eclectic Products, Inc., P.O. Box 4450, Pineville LA 71361 or call 800.767.4667. This warranty gives you specific legal rights, and you also have other rights, which vary from state to state.