



Manufactured by:  
**Eclectic Products, Inc.**  
 Pineville, LA 71361

Made in the USA

800.767.4667 - Technical Services

[www.eclecticproducts.com](http://www.eclecticproducts.com)

[www.e-6000.com](http://www.e-6000.com)

# TECHNICAL DATA SHEET

**E-6100® Adhesive**  
**Industrial Strength - Non-Slump**

## PRODUCT DESCRIPTION

**E-6100®** is a unique non-sag adhesive formulated to meet high-performance industrial requirements. **E-6100®** will not sag, drip or run, and can be used in applications that require vertical and horizontal hold. **E-6100®** has exceptional adhesion to wood, metal, glass, fiberglass, ceramics, masonry, concrete, asphalt, leather, rubber, vinyl and many plastics. **E-6100®** also maintains its flexibility in cold temperatures and may be used to bond items subject to vibration. The clear **E-6100®** is not formulated for exposure to sunlight. For these applications, paint over **E-6100®** after it has cured.

## PRODUCT CHARACTERISTICS and BENEFITS

<b>Non-slump</b>	Won't sag, drip or run on vertical or horizontal applications
<b>Flexible</b>	Does not become brittle in cold weather; can bond items subject to vibration
<b>Chemical resistant</b>	Safe for applications exposed to dilute acids and dilute caustics
<b>Abrasion resistant</b>	Great for bonding objects subject to normal wear
<b>Waterproof</b>	Can be submerged in fresh and salt water after complete cure
<b>Paintable</b>	Paint to match surrounding area or make UV-resistant

## PROPERTIES OF UNCURED MATERIAL

<b>Color(s)</b>	Clear, white, gray, black
<b>VOC</b>	1.198 grams/liter
<b>Solvent</b>	Perchloroethylene
<b>Non-flammable</b>	Yes
<b>Density</b>	11.0 +/- 0.1 lbs/gal
<b>Solids</b>	32% by weight, 44% by volume
<b>Viscosity</b>	Non-slump
<b>Tack time</b>	~4 minutes
<b>Full cure time</b>	Thin film: 24 hours; Thick film: 48-72 hours
<b>Storage</b>	Store in dry area between 50°F (10°C) and 80°F (27°C)
<b>Freeze/thaw stability</b>	Stable; allow product to warm to room temperature before using
<b>Shelf life</b>	2 years (unopened)

## PROPERTIES OF CURED MATERIAL

<b>Chemical resistance</b>	Excellent to water, dilute acids and dilute bases
<b>UV resistance</b>	No; paint over for UV resistance
<b>Hardness</b>	80 Shore A
<b>Dielectric strength</b>	400V/mil (ASTM D-149); this is the maximum voltage that can be applied to a given material without causing it to break down
<b>Tensile strength</b>	3800 lb/in <sup>2</sup> (ASTM D-412)
<b>Elongation</b>	900% (ASTM D-412)
<b>Service temperature</b>	-40 °F (-40 °C) to 150 °F (66 °C)
<b>Paint-over time</b>	24 hours

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### ADHESION TEST - Average values, 180° peel, ASTM D 903

ABS	33 pli	Acrylic	36 pli	Aluminum	28 pli
Cement/Brick	25 pli	Glass	38 pli	Leather	10 pli
Neoprene	32 pli	Polycarbonate	31 pli	PVC	29 pli
Rubber	34 pli	Steel	25 pli	Tile	25 pli
Urethane	18 pli	Wood	25 pli		

### SOLVENTS THAT DISSOLVE E-6000® SERIES ADHESIVES

The following lists common solvents that dissolve E-6000® Series when hardened samples are immersed. The dissolution with these solvents is 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.

Gasoline	Cyclohexane	Perchloroethylene	1,1,1-Trichloroethane
Methylene chloride	Chloroethane NU	Chevron solvent 1100	Propyl acetate
Toluene			

### CHEMICALS THAT HAVE LITTLE OR NO EFFECT ON E-6000® SERIES ADHESIVES

E-6000 exhibits excellent resistance to water, dilute acids and dilute bases. Thin films of E-6000 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 below. All percentages are given by weight unless otherwise noted.

Wine (20% alcohol by volume)	Beer (3.2% alcohol by volume)	Acetic acid (5% and 10%)
Sulfuric acid (3% and 10%)	Boric acid (3.1%)	Oxalic acid (3.1%)
Lactic acid (3.8%)	Distilled water	Sodium chloride (10%)
Sodium carbonate (2.7%)	Potassium hydroxide (3.4%)	Ammonium hydroxide (3.4%)
Ammonium nitrate (50%)	Nitric acid (10% and 20%)	Milk (fresh, tested at 40°F)
Motor oil (30w)	Hydraulic oil	Antifreeze
	Phosphoric acid (30% and 60% as P <sub>2</sub> O <sub>5</sub> )	

### DIRECTIONS FOR USE and APPLICATION NOTES

Always test a small area before full use. Clip nozzle tip and puncture cartridge inside nozzle to flow product.

Cartridge gun is required.

- Step 1** Surface should be clean, dry and free of dirt. Roughen surface for optimum adhesion.
- Step 2** Apply E-6100® directly to each surface to be bonded or repaired. Bring surfaces together.
- Step 3** For maximum strength bond, allow to dry for 24 to 72 hours.
- Step 4** Clean uncured adhesive with acetone or naphtha sparingly. The adhesive will ball up and brush off. Cured material may be removed by cutting or scraping.
- Step 5** Store unused E-6100® adhesive in a dry area at room temperature.

For technical assistance, call 800.767.4667.

- Please read all directions before using. Use in well-ventilated area only.
- Product can be used between 50 °F (10 °C) and 90 °F (32 °C). Dry time decreases when used between 70 °F (21 °C) and 90 °F (32 °C).
- E-6100® hardens by solvent evaporation.
- E-6100® is not recommended for any items that come into contact with food, drinking water or animals.
- E-6100® is not recommended for use on Styrofoam™, polystyrene, polyethylene or polypropylene plastics, aquariums or refrigeration units.
- Paint-over for added UV resistance.

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### HAZARDS

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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. To request an MSDS, please send an Email to [msds@eclecticproducts.com](mailto:msds@eclecticproducts.com) or call 800.333.9826.

### LIMITED WARRANTY

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The product is warranted against any defect in materials or workmanship under normal use and service 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 71360 or call 800.767.4667. This warranty gives you specific legal rights, and you also have other rights, which vary from state to state.