



Manufactured by:  
**Eclectic Products, Inc.**  
 Pineville, LA 71360

**Made in the USA**

800.767.4667 - Technical Services

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# TECHNICAL DATA SHEET

**UV-6800® Adhesive**  
*Industrial Strength - UV Resistant*

## PRODUCT DESCRIPTION

**UV-6800®** is a unique, clear adhesive formulated to meet high-performance industrial requirements, especially for applications exposed to sunlight. **UV-6800** has exceptional adhesion to wood, metal, glass, fiberglass, ceramics, masonry and concrete. It also adheres strongly to leather, rubber, vinyl and many plastics. **UV-6800** maintains its flexibility in cold temperatures and will resist yellowing, cracking and embrittlement. For industrial applications where UV resistance is not required, **E-6000®** is recommended.

## PRODUCT CHARACTERISTICS and BENEFITS

<b>UV resistant</b>	Can be used in outdoor or marine applications and resists yellowing or cracking
<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 UV-6800®

<b>Color(s)</b>	Clear
<b>VOC</b>	1.799 grams/liter
<b>Solvent</b>	Perchloroethylene
<b>Non-flammable</b>	Yes
<b>Density</b>	11.0 +/- 0.1 lbs/gal
<b>Solids</b>	30% by weight, 40% by volume
<b>Viscosity</b>	Medium: 100,000 cps
<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 and 80 °F (10 and 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 UV-6800®

<b>Chemical resistance</b>	Excellent to water, dilute acids and dilute bases
<b>UV resistance</b>	Yes; for added longevity, paint over UV-6800
<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>	3500 lb/in <sup>2</sup> (ASTM D-412)
<b>Elongation</b>	900% (ASTM D-412)
<b>Service temperature</b>	-40 to 150 °F (-40 to 66 °C)
<b>Paint-over time</b>	24 hours

## TECHNICAL DATA SHEET

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

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ABS	32 pli	Acrylic	36 pli	Aluminum	35 pli
Cement/Brick	25 pli	Glass	34 pli	Leather	20 pli
Neoprene	32 pli	Polycarbonate	37 pli	PVC	38 pli
Rubber	30 pli	Steel	45 pli	Tile	25 pli
Urethane	32 pli	Wood	40 pli		

### SOLVENTS THAT DISSOLVE UV-6800®

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**Chevron solvent 1100**

**Chlorothane NU**

**Cyclohexane**

**Gasoline**

**Methylene chloride**

**Perchloroethylene**

**Propyl acetate**

**Toluene**

**1,1,1-Trichloroethane**

These are common solvents that dissolve E-6000® Series or adhesives when hardened samples were immersed. The dissolution with these solvents were 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.

### CHEMICALS THAT HAVE LITTLE OR NO EFFECT ON UV-6800®

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**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 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 carbonate** (2.7%)

**Sodium chloride** (10%)

**Sulfuric acid** (3% and 10%)

**Wine** (20% alcohol by volume)

E-6000® Series exhibits excellent resistance to water, dilute acids and dilute bases. Thin films of E-6000 Series 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.

## TECHNICAL DATA SHEET

### DIRECTIONS FOR USE and APPLICATION NOTES

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Always test a small area before full use. For tube: use point of cap to puncture neck of tube to flow product.

DO NOT SQUEEZE TUBE TO FORCE OPENING.

For 10.2 oz cartridges: 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 UV-6800® 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 UV-6800® 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 and 90 °F (10 and 32 °C). Dry time decreases when used between 70 and 90 °F (21 and 32 °C).
- UV-6800® hardens by solvent evaporation.
- If using UV-6800® to adhere articles to fabric, DO NOT DRY CLEAN.
- UV-6800® is not recommended for any items that come into contact with food, drinking water or animals.
- UV-6800® is not recommended for use on Styrofoam™, polystyrene, polyethylene or polypropylene plastics, aquariums or refrigeration units.

### HAZARDS

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This product contains perchlorethylene. Before working with this product, read and become familiar with information concerning hazards, proper use and handling. MSDS is available on line at: [eclecticproducts.com/msds/uv6800\\_english.pdf](http://eclecticproducts.com/msds/uv6800_english.pdf); to request an MSDS, please send an e-mail 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.