



Technical Data Sheet



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E6800® INDUSTRIAL ADHESIVES

UV Resistant Formula (Clear)

PRODUCT DESCRIPTION

E6800® is a unique UV-RESISTANT, 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. E6800 maintains its flexible bond in extreme cold temperatures and will not crack, become brittle or turn yellow. It is excellent for bonding items subject to vibration.

WHERE TO USE / APPLICATIONS

- greenhouse & solarium repairs
- roof flashing & shingles repair
- garden tools
- repair anchor & metal parts exposed to salt and sunlight
- repair brick & mortar
- and much more!

FEATURES AND BENEFITS

UV RESISTANT – can be used in outdoor or marine application; and resists yellowing or cracking

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

WATERPROOF – can be submerged in fresh and salt water after complete cure

PAINTABLE – paint to match surrounding area for more UV resistance

TECHNICAL INFORMATION

PROPERTIES – Medium Viscosity

UNCURED MATERIAL	
Color:	Clear
Solvent:	Perchloroethylene
Non-flammable:	Yes (uncured liquid state)
Density:	11.0 +/-0.1 lbs/gal
Solids:	30% by weight, 40% by volume
Viscosity:	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 water, 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 ² (ASTM D-412)
Elongation:	900% (ASTM D-412)
Temperature range:	Fully cured adhesive can withstand temperatures from -40 to 180 °F (-40 to 82 °C) intermittently.
UV resistance:	Yes
Paint-over time:	24 hours

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%) 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 ₂ O ₅) Potassium hydroxide (3.4%) Sodium carbonates (2.7%) Sodium chloride (10%) Sulfuric acid (3% and 10%) Wine (20% alcohol by volume)	E6000® exhibits excellent resistance to water, 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.
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SOLVENTS THAT DISSOLVE E6000®

Chevron solvent 1100 Chlorothane NU Cyclohexane Gasoline Perchloroethylene Propyl acetate Toluene	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.
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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 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.

Product is paintable and immediately resistant to precipitation upon application.

HEALTH and SAFETY

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-e6800-clear-english.pdf; eclecticproducts.com/downloads/sds-e6800-clear-french.pdf; to request a hard copy of the SDS, please send an e-mail to msds@eclecticproducts.com or call 800.333.9826.

LIMITED WARRANTY

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.