

Technical Data Sheet



Eclectic Products, Inc.
Manufacturing Facility
101 Dixie Mae Drive
Pineville, Louisiana
eclecticproducts.com
800.349.4667

ISO 9001:2008
Compliant
Quality Management Systems

Administration Office
Eugene, Oregon
eclecticproducts.com
800.693.4667



E6000® Self-Leveling Formula

Industrial Adhesives

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 maintenance
- cracks in flooring
- leaking containers/pipes
- locking down fasteners against vibration
- seams in trailers
- garage door assemblies
- fishing waders/wet suits
- auto upholstery/paneling/molding
- battery terminal protection 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

WATERPROOF – can be submerged in fresh and salt water after complete cure;
washer/dryer safe

PAINTABLE – paint to match surrounding area or make UV resistant

TECHNICAL INFORMATION

LOW/MEDIUM/HIGH Viscosity

UNCURED PROPERTIES		CURED PROPERTIES	
Color:	Clear & Black	Chemical resistance:	Excellent to water, dilute bases
VOC:	2.0 grams/liter	Hardness:	80 Shore A
Solvent:	Perchloroethylene	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
Non-flammable:	Yes	Tensile strength:	3500 lb/in ² (ASTM D-412)
Density:	11.0 +/-0.1 lbs/gal	Elongation:	900% (ASTM D-412)
Solids:	30% by weight, 40% by volume	Service temperature:	-40 to 150 °F (-40 to 66 °C)
Viscosity:	50,000 cps low 100,000 cps medium 200,000 cps high		
Tack time:	~ 4 minutes		
Full cure time:	Thin film: 24 hours Thick film: 48-72 hours		
Storage:	Store in dry area between 50 and 80 °F (10 and 27 °C)		
Freeze/thaw stability:	Stable, allow product to warm to room temperature before using		
Shelf life:	2 years (unopened)		

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ADHESION TEST – Average values, 180° peel, ASTM D 903

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		

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 P₂O₅)
 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.

CHEMICALS THAT DISSOLVE E6000[®]

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

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

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 cartridges: clip nozzle tip and puncture cartridge inside nozzle to flow product. Cartridge gun is required.

- Step 1 Read directions and test small area before use.
- Step 2 Surface should be clean, dry and free of dirt. For best results lightly roughen surface before use.
- Step 3 Product can be used between 50 and 90 °F (10 and 32 °C).
- Step 4 Apply a thin coat to each surface. Wait approximately 2 minutes before mating surfaces
- Step 5 For maximum-strength bond, allow 24-72 hours for dry time.
- Step 6 Clean uncured adhesive with acetone or citrus-based solvents. Cured material may be removed by cutting or scraping. For prolonged storage after opening; for easy cap removal, apply a thin coat of petroleum jelly to the threads of the tube before replacing cap; for cartridge, cover or plug the opening of the nozzle.

For technical assistance, call 800.767.4667.

- Use product in a well ventilated area.
- E6000[®] hardens by solvent evaporation.
- E6000[®] is not recommended for any items that come into contact with food, drinking water or animals.
- E6000[®] is not recommended for use on Styrofoam[™], polystyrene, polyethylene or polypropylene plastics, aquariums or refrigeration units.

HEALTH and SAFETY

WARNING: POSSIBLE CANCER AGENT. EXPOSURE MAY RESULT IN NAUSEA, HEADACHE, CONFUSION OR INSTABILITY. MAY BE HARMFUL BY BREATHING VAPORS. EXPOSURE MAY CAUSE KIDNEY DAMAGE. Contains perchloroethylene. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful. **WARNING:** This product contains a chemical known to the State of California to cause cancer. Avoid breathing vapors. Use exhaust fan to remove vapors and ensure adequate cross ventilation. When using do not eat, drink or smoke. Avoid contact with skin. Wash thoroughly after handling. **FIRST AID:** If symptoms occur, move to fresh air. If symptoms persist, see a physician. If swallowed, do not induce vomiting. For further health information, contact a poison control center. **KEEP OUT OF REACH OF CHILDREN.** Conforms to ASTM D-4236.

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/e6000_english.pdf; to request a hard copy of the MSDS, 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 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.