

Technical Data Sheet



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ISO 9001:2008
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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

PROPERTIES – Low / Medium / High Viscosity	
UNCURED MATERIAL	
Color:	Clear & Black
VOC:	2.0 grams/liter
Solvent:	Perchloroethylene
Non-flammable:	Yes
Density:	11.0 +/-0.1 lbs/gal
Solids:	30% by weight, 40% by volume
Viscosity:	50,0*00 cps low / 100,000 cps medium / 200,000 cps high
Tack time:	~ 4 minutes
Set time:	20 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)

*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)
Service temperature:	-40 to 150 °F (-40 to 66 °C)

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 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.
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)	

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 were an occasional splash or brief exposure is expected may be acceptable. Test a small area before full use.
Chlorothane NU	
Cyclohexane	
Gasoline	
Methylene chloride	
Perchloroethylene	
Propyl acetate	
Toluene	
1, 1, 1-Trichloroethane	

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DIRECTIONS and APPLICATION NOTES

- Step 1 Read directions and test small area before use.
- Step 2 Surface should be clean, dry and free of dirt.
- Step 3 For cartridges: Trim end of nozzle. Puncture inner seal.
- Step 4 Product can be used between 50 and 90 °F (10 and 32 °C).
- Step 5 For best results, roughen surface before use. For non-porous surfaces, apply a thin coat to each surface. Wait approximately 2 minutes before mating surfaces.
- Step 6 For maximum-strength bond, allow 24-72 hours for dry time.
- Step 7 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.

- May damage finished surfaces. Avoid such contact until completely dry. Not recommended for use on polystyrene, polyethylene, polypropylene, Styrofoam™ or paper products, and any items that come into contact with food, drinking water or animals.

HEALTH and SAFETY

United States | Contains perchloroethylene. Harmful if inhaled. May cause dizziness, headache or nausea. Can cause skin and eye irritation. 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. Keep away from heat and flame. Avoid breathing vapors. Use exhaust fan to remove vapors and ensure adequate cross ventilation. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. **First Aid:** If you experience difficulty in breathing, move to fresh air. If symptoms persist, get medical attention. If swallowed, do not induce vomiting. In case of eye contact, immediately flush with plenty of water for at least 15 minutes. Keep out of reach of children.

Canada | FUMES MAY BE HARMFUL. MAY IRRITATE EYES. Do not breathe fumes. Do not get in eyes or on skin. Use only in a well-ventilated area. Keep out of reach of children.

FIRST AID TREATMENT : Contains perchloroethylene. If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If breathed in, move person into fresh air. If in eyes or on skin, rinse well with water for 15 minutes. May cause dizziness, headache or nausea. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful. Open windows and doors during application and curing.

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_clear.pdf;

eclecticproducts.com/_msds_e6000_clr_blk_fr.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 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.