

Technical Data Sheet



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UNITED STATES



10.2 fl oz (Clear)

3.7 fl oz (Clear)

Not all styles/sizes/colors available in all areas.

E6800 INDUSTRIAL ADHESIVES

UV Resistant Formula (Clear)

PRODUCT DESCRIPTION

E6800 is a unique UV-RESISTANT, 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

*Not recommended for use on polystyrene, polyethylene, polypropylene, Styrofoam¹, or paper products.

TECHNICAL INFORMATION

PROPERTIES – Medium Viscosity

UNCURED MATERIAL	
Color:	Clear
Solvent:	Toluene, Petroleum Distillates (flammable)
Density:	7.5 lbs/gal
Solids:	46% by weight, 43% by volume
Viscosity:	100,000 cps medium
Tack time:	~ 2 minutes
Set time:	45 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)
VOC:	480 g/L

*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
Tensile Strength:	2,000 lb/ in ² (ASTM D-412)
Elongation %:	1,100% in ² (ASTM D-412)
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
Service Temperature:	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 TESTING			
SUBSTRATE	ADHESIVE DATA PLI & PSI	ASTM TEST #	ASTM TEST DESCRIPTION
FABRIC	30	1876	T-PEELS PLI
LEATHER	30		
VINYL	30		
CANVAS	45		
NEOPRENE	20		
RUBBER	10		
METAL	210	D1002/3163	LAP SHEAR - PSI
WOOD	200		
LAMINATE	70		
CHROME	150		
PLASTICS	80		
FIBERGLASS	100		
PVC	100	D1583	DOLLY PULL - PSI
CERAMIC	380		
CONCRETE	280		
MASONRY	110		
ASPHALT	200		
GLASS	205		

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CHEMICALS THAT HAVE LITTLE OR NO EFFECT ON E6800

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)

SOLVENTS THAT DISSOLVE E6800

Chevron solvent 1100
Chlorothane NU
Cyclohexane
Gasoline
Perchloroethylene
Propyl acetate
Toluene

DIRECTIONS and APPLICATION NOTES

Read directions and test small area before use.

1. Surface should be clean, dry and free of dirt. For best results, lightly roughen surface before use.
2. Puncture seal in neck of tube using pointer cap (if tube has a foil seal). If 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.
3. Apply directly to each surface to be bonded or repaired. Allow to partially cure, approximately 2 minutes before mating surfaces. Hardens by solvent evaporation and forms an immediate bond that is difficult to reposition after both adhesive-coated surfaces are placed in contact with each other and sufficient pressure is exerted to establish full contact.
4. Allow 24 hours for curing. Depending on materials and temperature, maximum strength may not be reached for 48 to 72 hours.
5. For future easy cap removal, apply a thin coat of petroleum jelly to the threads of the tube before replacing the cap. If cartridge: For prolonged storage after opening, cover or plug the opening of the nozzle.
6. Clean uncured adhesive with acetone or citrus-based solvents. Cured material may be removed by cutting or scraping.

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HEALTH and SAFETY

This product contains toluene. Before working with this product, read and become familiar with information concerning hazards, proper use and handling.

To request a hard copy of the SDS, please send an e-mail to sds@eclecticproducts.com.

⚠WARNING: This product can expose you to chemicals including toluene which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

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.