



Solar Compounds Corporation
1201 West Blancke Street
Linden, NJ 07036 USA
Ph: 908-862-2813 Fax: 908-862-8061
Intl: Ph: (0101) 908-862-2813 Fax: (0101) 908-862-8061
www.solarcompounds.com

TECHNICAL DATA SHEET

SOLARITE EA-0505

DESCRIPTION: Solarite EA-0505 is a fast curing room temperature epoxy adhesive compound, whose convenient mixing ratio makes it easy to use and well suited to automatic dispensing equipment. EA-0505 is fast curing with no shrinkage when adhering filter end caps, and has excellent resistance to Skydrol, lube oil, aqueous ammonia and ester hydraulic lubricants at temperatures of over 100C.

SPECIFICATIONS—UNCURED:

	Part A	Part B
Color, Visual	White	Amber
Mix Ratio—By Weight	100	30
Viscosity, cps, ASTM-D-2393	165,000	350
Specific Gravity	1.45	0.97
Gel Time, 25°C, Hours	0.75-1.00	
Mixed Viscosity, cps, ASTM-D-1084	18,000	
Shelf Life, 25°C, Months	12	

SPECIFICATIONS—CURED:

PHYSICAL:

Durometer, ASTM-D-2240	83D
Tensile Strength, psi, ASTM-D-638	4,300
Tensile Elongation, Percentage, ASTM-D-638	5.0
Thermal Conductivity, BTU-in/ft ² (Hour) (°F)	3.4

ELECTRICAL PROPERTIES:

Dielectric Strength, Volts/Mil, ASTM-D-149	422
Dielectric Constant, 1 kHz, ASTM-D-150	4.12
Dissipation Factor, 1 kHz, ASTM-D-150	0.02
Volume Resistivity, ohm/cm, ASTM-D-257	1x10 ¹⁴

CHEMICAL RESISTANCE PROPERTIES

Four weeks immersion @ 100C	Wt Gain(%)	Hardness(Shore D)
Skydrol (Hydraulic oil)	0.77	78
Mobil Rarus SHC 1026(Compressor)	0.75	75
Sunvis 816-WR (Hydraulic oil)	0.24	77
Exxon XD-3 (lube oil)	0.27	75
Aqueous Ammonia	0.95	78

USE INSTRUCTIONS:

1. Pre-mix contents of each container before use to ensure the entire contents are uniform. Some settling may occur upon prolonged storage which is soft and easily incorporated.
2. Measure out components of the product by weight or volume and mix thoroughly together to incorporate any settled material.
3. De- air if necessary at 760 mm of Hg for 5-10 minutes.
4. Pour into cavity to be encapsulated.

CURE SCHEDULE:

Initial cure is achieved in 16-24 hours at room temperature. Final cure takes at least 7-10 days at 72F. To accelerate the cure higher temperatures can be used, 2-4 hours at 150 F is usually sufficient , after allowing the product to gel at room temperature for 3 hours.

STORAGE REQUIREMENTS:

This product has a tendency to settle upon storage and shipment, material should be mixed well prior to use. Store in a cool dry place.

IMPORTANT:

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HEALTH CAUTION:

Avoid breathing possible fumes, mists and vapors, which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clear water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keEA away from open flame or ignition source.

PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION.

FOR CHEMICAL EMERGENCY
CALL CHEMTREC (DAY OR NIGHT) 800-424-9300.