



Silicone & Epoxy Technology

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Set-Cast 1520

Set-Cast 1520 is a low viscosity, two-component, epoxy curing varnish, designed for lightly coating printed circuit boards, ceramic substrates and plastic, and quickly penetrate coils and transformers.

<u>Properties-Uncured:</u>	PART A	PART B
Color, Visual	Light Amber	Amber
Viscosity, cps	350	500
Specific Gravity	1.00	0.90
Mix Ratio, by weight	1:1	
Mixed Viscosity, cps@ 25 °C	400	
Pot Life @25 °C, hours	8 hrs	
Shelf Life @25 °C, months	12	

Physical Properties-Cured:

Coefficient of Thermal Expansion,(in/in/ °C)	80 x 10 ⁻⁶
Service Temperature, °C	105
Heat Distortion Point, °C	90
Corrosion Resistance, salt spray	500 hours-no effect

Electrical:

Dielectric Strength, volts/Mil	450
Dielectric Constant, 1Khz	4.3
Dissipation Factor, 1Khz	0.006
Volume Resistivity, ohm-cm	1.0 10 ¹⁴

Mixing Instruction: Weigh out required amount of curing system. Mix thoroughly, scraping both sides and bottom of container. Evacuate mixture at 29in. Hg for 5-10 minutes if necessary. Apply to part.

Cure Schedule : Room Temperature cure 72 hr, ultimate hardness and physical and chemical properties develop in 3-5 days.

Fast Cure; allow material to air dry for 30 minutes. 1) 50 °C for 1 ½ to 2 hours. 2) 65 °C for 1 hour. 3) 70 °C for 30 minutes. 4) 95 °C for 15 minutes. 5) 120 °C for 6 minutes.

Note: if the higher temperatures are applied before the solvent has evaporated, “popping“ or blistering may result.

Read Warranty on Back of Technical Data Sheet.

Warranty

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