

Product
Bulletin

61CV2

AIR DRY ELECTRICALLY CONDUCTIVE ONE PART LOW COST EPOXY

GENERAL DESCRIPTION

61CV2 is a single component epoxy, formulated with silver coated ceramic that results in lower material costs without adversely sacrificing the properties obtained with a pure silver formulation. This concept opens the door to a wide range of applications previously prohibited by the much higher cost of conventional silver conductive.

61CV2 Formulated with Silver coated ceramic power combined with organic binders and solvents to produce electrically conductive paths, films or patterns over non-conductive substrates.

61CV2 formulation produces electrically conductive paths on a wide variety of surfaces including plastics, rubber, cloth, thermoplastic, paper, wood and many others.

61CV2 designed for use in diversified applications as microwave EMI & RFI shielding, in the assembly or repair of printed circuit boards, waveguides, electronic modules, flat cable, static shielding, connections, and circuitry.

- PC Board repair
- Electroplating Base
- Electroforming Base
- Printed Circuitry
- Tantalum Capacitors
- Static Shielding
- Electrical Games and toys
- Recording Tape
- Microwave Applications
- Tabulating Cards

SPECIFICATIONS

HANDLING CHARACTERISTICS

Color: Silver coated ceramic

%Silver coated ceramic: 76

Catalyst : Anhydride

Workable Pot Life: six months

Viscosity :6800 cps

@ 25°C cps HBF Brookfield,spindale#4,10rpm

Recommended Cure:

After air dry and tack free.

Heating to40-50°C will accelerate the drying Time.

Longer cure schedules may be required to optimize properties

Temperature °C(°F)	Time Hours
200(392)	0.7
180(356)	1.5
160(320)	2.5

PHYSICAL CHARACTERISTICS

Typical Physical Properties (Cured film)

Sheet Resistivity : < 0.1 Ω/sqcm

Bulk Resistivity: 3x10⁻⁵ Ω/cm

Adhesion Tensile Strength : 1000 N/cm² 1500 lb/in²

Lap shear Strength : 1400 N/cm² (2000 lb/in²)

Thermal Conductivity 0.04J/(cm.s. °C) :[0.01cal/(cm.s. °C)]

Specific heat 0.30J/(g. °C) :[0.07 cal/g. °C]

Coefficient of Thermal Expansion 3x10⁻⁵ (m/m)/ °C

Modulus of elasticity 4x10¹⁰ Pa (6x10⁵lb/in²)

Poisson's Ratio 0.35



APPLICATION

61CV2 conductive silver coated is formulated for application by brushing, spraying, dipping, banding or stylus.

Recommended thinners may be added for individual compositions, to replace solvent losses or to make slight adjustments. Only the recommended thinner should be used.

In handling and using organic solvents, the safety precautions recommended by the solvent supplier should be observed.

Safety and Handling

This product contains organic solvent.

The following precautions should be exercised:

- Use with adequate ventilation
- Avoid prolonged contact with skin, if contact with skin occurs, wash area immediately with a soap and water
- Avoid prolonged breathing of vapor
- Dangerous if swallowed
- Refer to MSDS for more details