

PRODUCT DESCRIPTION:

AA-DUCT AD1 is a single component epoxy, formulated with pure silver power combined with organic binders and solvents to produce electrically conductive paths, films or patterns over non-conductive substrates.

AA-DUCT AD1 formulation produces electrically conductive paths on a wide variety of surfaces including plastics, rubber, cloth, thermoplastic, paper, wood, and many others.

AA-DUCT AD1 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.

AA-DUCT AD1 shows slight settling when stored for a long period of time, no caking and will redisperse to a smooth homogeneous state.

PRODUCT PROPERTIES:

Color	Silver
Cure Type	Heat cure
	<ul style="list-style-type: none"> • EMI & RFI shielding • No mixing required.
Benefits	<ul style="list-style-type: none"> • Die Attach • High strength • Wave guides
Substrates	Excellent choice for Integrated Circuits, aluminum, steel, bronze, nickel, ceramic, glass, Etc.
Operating Temperature	-40°C to 175°C (347°F)
Pot Life	6 months at 25°C (77°F) 9 months at -40°C

UNCURED PROPERTIES:

Viscosity @ 25 °C, cps	20,000 ±1,000
Shelf Life	6 months at 25°C (77°F) 9 months at -40°C
Density	2.65

CURE SCHEDULE:

60 minutes	@ 120°C (248°F)
30 minutes	@ 150°C (302°F)
10 minutes	@ 175°C (347°F)

CURED PROPERTIES:

Hardness, Shore D	83
Volume Resistivity ohm-cm	2.5 x 10 ⁻³
Adhesive Bond Strength psi	1500
Thermal Conductivity, W/m.K	2.1
Coefficient of Thermal Expansion (in/in) C	57x 10 ⁻⁵
Lap Shear Strength, psi	9200

GENERAL INFORMATION:

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

HOW TO USE:

1. Carefully clean and dry all surfaces to be bonded.
2. Apply AA-DUCT AD1 to the prepared surfaces.
3. Some separation of components is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use.

AVAILABILITY:

This epoxy can be supplied in many different packages.



Atom Adhesives

Email: info@atomadhesives.com

1 Acorn St, Providence, RI 02903

Phone: (888) 522-6742 - Fax: (877) 522-6742