

CLEAR LOW VISCOSITY EPOXY ADHESIVE

Technical Product Bulletin

PRODUCT DESCRIPTION:

AA-BOND 2113 is a clear, low viscosity epoxy adhesive system that contains no solvents, cures at room temperature, has excellent flow ability and wetting characteristics, and adheres strongly to glass, ceramics, most metals and many plastics.

AA-BOND 2113 is particularly recommended for assembly and repair work of fiber optic and other high performance electronic and aerospace systems and components, and for structural laminating applications where an initial low viscosity and near transparent "color" are needed.

AA-BOND 2113 is a good electrical insulator, provides excellent resistance to weather, galvanic action, salt solutions and many other chemicals including mild acid and alkalis, petroleum solvents, lubricating oils, jet fuels and gasoline, and alcohol.

GENERAL INFORMATION:

Appearance	Clear, transparent
Cure Type	Room temperature or Heat cure
Benefits	<ul style="list-style-type: none"> • Good wetting • Solvent free • Excellent flowability • Adheres strongly to numerous substrates
Mix Ratio by weight	100:11 / Resin:Hardener
Substrates	Ceramics, glass to glass, fabrics, metals, laminates and other composite materials
Operating Temperature	-60 to 130 °C
Thixotropic Index	1.0
Typical Applications	assembly and repair work of fiber optic and other high performance electronic and aerospace systems and components structural laminating applications where an initial low viscosity and near transparent "color" are needed.

PHYSICAL PROPERTIES:

Specific Gravity	1.15
Reactive solids contents, %	100
Pot Life	30 minutes
Viscosity	300 cP @Temperature 77°F, 25°C
Shelf life	1 Year

ELECTRICAL PROPERTIES:

Volume Resistivity	6.00e+13 ohm-cm
Dielectric Constant	4.2
Dielectric Strength	410 volts/mil
Dissipation factor	0.020

MECHANICAL PROPERTIES:

Hardness, Shore D	88
Adhesive Bond Strength	2200 psi
Izod Impact, Notched	0.240 ft-lb/in

CURE SCHEDULE:

4 hours	@ 65°C
24 hours	@ 25°C

GENERAL INFORMATION:

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

HOW TO USE:

1. Carefully clean and dry all surfaces to be bonded
2. Apply AA-BOND 2113 adhesive to the prepared surfaces, and gently press these surfaces together. Contact pressure is adequate for strong, reliable bonds; however, maintain contact until adhesive is completely cured.
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.
4. Some ingredients in this formulation provided may crystallize when subjected to low temperature storage. A gentle warming cycle of 52°C for 30 minutes prior to mixing components may be necessary. Crystallized epoxy components do not react as well as liquid components and should be re-dissolved prior to use for best results.

AVAILABILITY:

This epoxy can be supplied in many different packages.

Atom Adhesives

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