

PRODUCT DESCRIPTION:

AA-BOND 2103 is a clear, near transparent, medium viscosity epoxy adhesive formulation developed for rigid laminating, sealing and bonding applications where the combination of good wetting and improved mechanical electrical properties is required.

AA-BOND 2103 is two-part liquid epoxy adhesive contains no solvents and is easy to mix, use and apply at room temperature. AA-BOND 2103 develops strong, rigid, high performance bonds to itself and to ceramics, glass and glass fabrics, metals, laminates and other composite materials, forestry and masonry products, and to most rigid plastics.

AA-BOND 2103 is an effective electrical insulator, and further provides excellent resistance to weather, galvanic action, vapors, JP4 fuel, gasoline, lubricants and other petroleum products, mild acids and alkalis, salts, and other organic and inorganic compounds.

PRODUCT DESCRIPTIONS:

Appearance	Clear, slight haze
Cure Type	Room temperature or Heat cure
Benefits	<ul style="list-style-type: none"> • Good wetting • Great mechanical properties • Great electrical properties • Solvent free • Easy mix and apply
Mix Ratio by weight	100:25 / Resin:Hardener
Substrates	Ceramics, glass to glass, fabrics, metals, laminates and other composite materials
Typical Applications	Rigid laminating, sealing and bonding applications where the combination of good wetting and improved mechanical electrical properties is required.

UNCURED PROPERTIES:

Specific Gravity	1.2
Reactive solids contents, %	100
Pot Life	20 minutes
Shelf life	1 Year

CURE SCHEDULE:

4 hours	@ 65°C
24 hours	@ 25°C

MECHANICAL PROPERTIES:

Hardness, Shore D	87
Izod Impact, Notched	0.200 ft-lb/in

ELECTRICAL PROPERTIES:

Volume Resistivity	6.00e+13 ohm-cm
Dielectric Constant	4.1
Dielectric Strength	420 kV/in
Dissipation Factor	0.020

THERMAL PROPERTIES:

CTE, linear	28.9 $\mu\text{in/in-}^\circ\text{F}$ @Temperature 68.0 °F
Operating Temperature	-60 to 125 °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 2103 is completely mixed 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.

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