

PRODUCT DESCRIPTION:

AA-BOND F125 is a 8 minutes gelling epoxy recommended for use in fiber optic connectors, optical and industrial bonding applications.

AA-BOND F125 is clear, two part system is easily mixed and used at room temperature. Fiber optic connectors can be polished in as little as 15 to 20 minutes for piston free assurance. The high bond strength of AA-BOND F125 to glass, plastics, ceramics, metals and masonry allows it to be used in a wide array of applications including lens bonding, connector backfills, construction, component assembly and maintenance repair.

AA-BOND F125 is low shrinkage epoxy, develops significant properties 1 hour after mixing. However, an extended cure of 4-6 hours at 25°C is required for fully matured bonds.

NOTE: AA-BOND F125 develops a high exotherm. Use immediately after mixing. The exothermic reaction begins within 2 minutes after initiating the mixing step, so have everything ready before mixing.

PRODUCT CHARACTERISTICS:

Components	2 component - requires mixing
Color	Clear
Mix Ratio, by weight	100:93 / Resin:Hardener
Benefits	<ul style="list-style-type: none"> • Low viscosity • Fast Cure • Low Shrinkage
Cure Type	Heat cure or Room Temperature
	-60 to 100 °C
Typical Applications	Fiber optic assembly, multimode and single mode connectors, small potting and sealing applications
Thixotropic Index	1.0

UNCURED PROPERTIES:

Viscosity @ 25 °C	Resin 9000cPA, Hardener 14000CP
Specific Gravity	1.19
Pot Life	5 minutes
Solids Content	100 %
Shelf life	1 year

CURE SCHEDULE:

24 hours	@ 25°C
1 hour	@ 60°C

CURED PROPERTIES:

Hardness, Shore D	75
Adhesive Bond Strength Alum to Alum, psi	2900

ELECTRICAL PROPERTIES:

Volume Resistivity	5.00e+11 ohm-cm
Dielectric Constant	4.8 @Frequency 1000 Hz
Dielectric Strength	410 kV/in

THERMAL PROPERTIES:

CTE, linear	33.3 μ in/in-°F @Temperature 68.0 °F
Operating Temperature	-60 to 115 °C
Glass Transition (Tg), ultimate, °C	40

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 F125 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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