

**PRODUCT DESCRIPTION:**

AA-BOND FDA2 is a medium viscosity epoxy resin system specifically developed for medical device applications. It has been tested in accordance with USP biological reactivity tests, in vivo and received Class VI approval.

AA-BOND FDA2 is two part amber adhesive used and cured at room temperature for bonding, laminating and repair applications by manufacturers of food preparation, processing and packaging equipment and devices.

AA-BOND FDA2 provides low permeability to gases and vapors, and good resistance to water, weather, petroleum solvents, lubricants, to mild acids and alkalis, and to many other organic and inorganic compounds.

**GENERAL PROPERTIES:**

<b>Appearance</b>	Amber
<b>Cure Type</b>	Heat cure or Room Temperature
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Medium viscosity</li> <li>• Class VI approved</li> <li>• Easily mixed</li> <li>• Low permeability</li> <li>• Good resistance</li> </ul>
<b>Mix Ratio by weight</b>	100:100 / Resin:Hardener
<b>Substrates</b>	Most metals, ceramic, glass and plastics.
<b>Typical Applications</b>	Bonding, laminating and repair applications by manufacturers of food preparation, processing and packaging equipment, and by manufacturers of catheters, hearing aids, dental products and other biomedical instruments and devices.

**UNCURED PROPERTIES:**

<b>Viscosity @ 25 °C</b>	14,000 ±2000 @Temperature 77°F, 25°C
<b>Specific Gravity, mixed</b>	1.11
<b>Reactive solids contents, %</b>	100
<b>Pot Life</b>	45 minutes

**CURE SCHEDULE:**

<b>1 to 4 Hours</b>	@ 65°C
<b>24 Hours</b>	@ 25°C

**CURED PROPERTIES:**

<b>Hardness, Shore D</b>	79
<b>Elongation at Yield</b>	9.0 %
<b>Adhesive Bond Strength</b>	1800 psi Lap shear, alum to alum

**ELECTRICAL POPERTIES:**

<b>Volume Resistivity</b>	1.20e+14 ohm-cm
<b>Dielectric Constant</b>	3.4 @Frequency 1000 Hz
<b>Dielectric Strength</b>	420 kV/in
<b>Dissipation Factor</b>	0.020 @Frequency 1000 Hz

**THERMAL PROPERTIES:**

<b>Operating Temperature</b>	-70 to 145 °C
<b>Glass transition temperature (Tg), °C</b>	54
<b>CTE, linear</b>	29.4 µin/in-°F @Temperature 68.0 °F

**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 FDA2 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

**Atom Adhesives**

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