

# High Impact Epoxy Staking Compound RT Curable

Technical Product Bulletin

**AA-BOND 2110** 

### **PRODUCT DESCRIPTION:**

AA-BOND 2110 is a thixotropic epoxy resin and hardener formulation developed for industrial adhesive, staking, laminating, repair and manufacturing applications where long pot-life, good wetting, non-sag, non-drip and improved impact strength properties are required. AA-BOND 2110 is easy-to-use two parts adhesive system contains no volatile solvents, readily cures at room temperature, and bonds to most materials including glass and glass fabrics, ceramics, wood, leather, most metals, and many plastics.

AA-BOND 2110 is strong, tough, resilient, has superior mechanical impact and thermal shock resistance characteristics, and is also highly resistant to weather, water, gases and vapors, most petroleum products and fuels, salts, mild acids and alkalis, and many other organic and inorganic compounds.

### **PRODUCT PROPERTIES:**

Appearance	Hazy off white	
Cure Type	Room temperature or Heat cure	
	High impact strength	
Benefits	Good wetting	
	Long pot life	
Mix Ratio by	100:30 / Resin:Hardener	
weight		
Substrates	metals, glass, ceramics, wood and many plastics	
Turnical	Staking components, bonding, laminating, repair	
Typical	applications, PCB components, aerospace,	
Application	anything where superior properties are required	
Thixotropic		
Index	6.6	

### **UNCURED PROPERTIES:**

Specific Gravity, mixed	1.25 g/cc
Viscosity @25 °C, cps	60,000 cP
Pot Life	1 Hour (100 grams )
Shelf life	1 Year

### **CURE SCHEDULE:**

8 hours	4 hrs @ 25°C + 4 hrs @ 65°C
24 hours	@ 25°C
72 hours	@ 25°C

# **AVAILABILITY:**

This epoxy can be supplied in many different packages.

# **THERMAL PROPERTIES:**

CTE, linear	30.5 μin/in-°F @RT
<b>Operating Temperature</b>	-70 to 100 °C

### **MECHANICAL PROPERTIES:**

Hardness, Shore D	80
Adhesive Bond Strength	3100 psi
Izod Impact, Notched	2.00 ft-lb/in

# **ELECTRICAL PROPERTIES:**

Volume Resistivity	9.50e+8 ohm-cm
	280 ohm-cm
	@Temperature 176 °F
Dielectric Constant	4.7
	@Frequency 1000 Hz
Dielectric Strength	430 kV/in
Dissipation Factor	0.010
	@Frequency 1000 Hz
	0.31
	@Frequency 1000 Hz

### **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
- Apply AA-BOND 2110 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

# **Atom Adhesives**

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