

**A/B Epoxy Resin, Ultra clear.**

**Description:**

- Aktinium Technologies Ultra clear epoxy resin is a room temperature curing epoxy resin.

**Features:**

- Protects against moisture, and other atmospheric composition
- High strength
- High adhesion
- No Solvents, no cure by-products
- Has stable mechanical and electrical properties between -45° C- +120° C

Non Toxic, Food safe, UV Resistant

**Characteristics:**

test item	testing standard	unit	A	B
Outside view	visual inspection	---	Clear liquid	Clear liquid
viscosity	GB/10247-2008	mPa·s ( 25°C )	400±100	350
density	GB/T 13354-92	g/cm <sup>3</sup> ( 25°C )	1.10	1.04

**Operation:**

test item	unit	value
mixture ratio	weight ratio	100 : 50
mixture ratio	volume ratio	100 : 55
Mixed viscosity	mPa·s ( 25°C )	500-1000
Mixture density	g/cm <sup>3</sup> ( 25°C )	1.08
operation time	min ( 25°C )	40
curing time	°C /hr	80/1 or 25/10
Temperature Range of Use	°C	-45°C to +120°C

**A/B Epoxy Resin(clear)**

Two part epoxy resin A, B in ratio 2 parts A, 1 part B by weight, curing time depends on temperature, ( 80° C /90min or 25° C /10h)

**Operation:**

- Shelf time 1 year part A, 6 months part B.
- When mixing stir in same direction to avoid introducing bubbles.
- Any bubbles on the surface can be eliminated by using a hot air gun.
- Curing is an exothermic reaction and apply a maximum of 10mm thick layers to avoid excessive heat.

**Typical performance:**

test item	testing standard	Unit	value
hardness	GB/T 531.1-2008	Shore D	80
conductivity factor	GB/T 20673-2006	μm/ ( m, °C )	44
expansion coefficient	GB/T 8810-2005	24h, 25°C, %	<0.1
water absorption	GB/T 1693-2007	kV/mm ( 25°C )	>20
glass transition temperature	GB/T 1693-2007	( 1MHz ) (25°C)	0.014
dielectric strength	GB/T 1693-2007	( 1MHz ) (25°C)	3.53
Loss factor	GB/T 1692-92	( DC500V ) Ω·cm	1.2×10 <sup>15</sup>

**Remark: All the above data obtains at 25 °C**

**Storage:**

- Close the containers after use and store in a cool place