



High Performance Epoxy Adhesive

Product Description

JD050-60 is a two-component, medium viscosity, toughened epoxy. Cured product exhibits excellent toughness and fatigue resistance. This product can be applied on different substrates, including plastics, woods, metals, glass, carbon fibers, and ceramics. The durability of this product is very high levels and can pass many environmental test experiments. For its special characteristic and reliability, this product is used widely in various areas, as a high performance adhesive.

Features

1. The retained strength of this product after environmental test experiments is still excellent.
2. This product offers outstanding shear strength.
3. Cured product exhibits excellent resistance for chemical and solvent.
4. Cured product exhibits outstanding toughness and fatigue resistance.
5. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

	JD050-60A	JD050-60B
Appearance	liquid	liquid
Color	Black	Yellow
Viscosity 25°C,cps	80,000~110,000	56,000~85,000
	S14 10rpm	S14 20rpm
Thixotropic Index	≥ 3.6	≥ 2
Specific Gravity	1.16	0.99

Typical Curing Properties*

Mix Rate (A : B) by Weight	2 : 1
Pot Life, 25 °C, min	20
Surface Dry Time, 25°C, hr	4
Through Cure Time, 25°C, day	5~7

*A : B = 2g : 1g

Direction of Use

1. It should be applied to a clean surface. Recommended to use with solvent which is free of dirt, grease or mold release to impact of the products expected utility.
2. Mix thoroughly by weight 2 : 1. Mix approximately 15 seconds after uniform color is obtained.
3. For optimum properties mixed, this product should be used before its pot life. Do not mixing large two component at the same time to avoid that heat release to damage materials.
4. For maximum bonding strength apply adhesive evenly to both surfaces to be jointed.
5. Contact pressure is recommended during this resin cure.

Typical Cured Properties*

Glass Transition Temp., (MDSC), °C	70
Durometer Hardness, Shore D	85
Degradation Temp., (TGA 10°C/min) °C	328
Specific Gravity	1.10
Surface Resistivity, ohm	1.68*10 ¹²
Volume Resistivity, ohm-cm	8.8*10 ¹⁴

* Specimen Cure Condition: 80°C / 1hr

Storage and Shelf Life

The product should be stored in cool and dark place. The resin and hardener will become yellow under the sunlight. This product is amine-content. Replace the lid immediately after use. Keep without any possibility of moisture when not using. Shelf life of this product is 1 year when stored at 14~34°C in the original and unopened containers.

Caution

Some findings indicate a lack of potential for carcinogenicity with the compositions of this product by long term recurrent application to the skin. However, contact with skin is likely to produce mild transient reddening. It is important to remove adhesive from skin with soap and water thoroughly. DO NOT use solvents for cleaning hands. This product is of moderate acute toxicity by swallowing. If swallowed, call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For more information, refer to the Safety Data Sheet.