



Fast Curing Epoxy for Bonding

Product Description

JD883-2 is a two component epoxy resin designed for fast cure. This resin exhibits high adhesion strength, greasy resistance, chemical and solvent resistance. This product is suited for plastics, ceramics, glass and metals bonding. This resin can be fast cure at room temperature. It is easy to use and can shorten the manufacturing process, is a widely used epoxy resin adhesive.

Features

1. This resin exhibits good handling property after mixing.
2. This product offers good adhesion strength to many plastic and metals.
3. This product can quickly show the initial strength, and the next process can be carried out after about 20 minutes.
4. This product is able to reduce the working time and increase the efficiency at the same time.
5. The hardening surface will not exhibit a surface oiliness and poor gloss.
6. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

	JD883-2A	JD883-2B
Appearance	Liquid	Liquid
Color	Colorless	Light yellow
Viscosity 25°C, cps	5,400~8,100	1,350~1,680
	S14 50rpm	S14 100rpm

Typical Curing Properties

Pot Life, 25°C, min	3~4
Surface Dry Time 25°C, min	5~6
Through Cure Time 25°C, hr	3

Direction of Use

1. It should be applied to a clean surface which is free of dirt, grease or mold release. In many cases, a simple solvent wipe is sufficient.
2. Mix thoroughly by weight 1 : 1. Mix approximately 15 seconds after uniform color is obtained.
3. For optimum properties mixed, this product should be used before its pot life. Large quantity mixing is not recommended for this product.
4. For maximum bonding strength apply adhesive evenly to both surfaces to be jointed.
5. The handling information of this product supplied in dual syringe cartridge can be obtained by requesting a copy of "Introduction for Adhesive Cartridge Dispenser", F-06122201.

Typical Cured Properties*

Glass Transition Temp.,(MDSC)°C	38
Specific Heat 0°C, J/g°C	1.20
Specific Heat 25°C, J/g°C	1.33
Specific Heat 50°C, J/g°C	1.76
Specific Heat 75°C, J/g°C	1.81
Specific Heat 100°C, J/g°C	1.89
Durometer Hardness, Shore D	78
Specific Gravity	1.21
Water Absorption Ratio(25 °C /24hr), %	0.83
Water Absorption Ratio(80 °C /24hr), %	4.90
Water Absorption Ratio(97 °C /1.5hr), %	2.72
Degradation Temp, (TGA 10°C /min) °C	320
Weight Loss Ratio @ 100°C, %	0
Weight Loss Ratio @ 150°C, %	0.14
Weight Loss Ratio @ 200°C, %	0.41
Weight Loss Ratio @ 250°C, %	0.84
Weight Loss Ratio @ 300°C, %	2.23

*Specimen Cure Condition: 80°C / 1 hr

Storage and Shelf Life

The container should be stored in cool and dark place. The resin and hardener will become yellow under the sunlight. This product contains mercaptans, replace the lid immediately after use. Keep without any possibility of wet when not using. Shelf life of this product is one year when stored below 14~34°C in original, 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. This product is of moderate acute toxicity by swallowing. If swallowed, call a doctor. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention. For specific information on this product, consult the Material Safety Data Sheet.