



Fast-setting Epoxy for Bonding

Product Description

JB892-5 is two component epoxy resin for fast curing. 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 is recommended as a general adhesive where convenience and speed at room temperature is desired.

Features

1. This resin exhibits good handling property for mixing.
2. This product offers good adhesion strength to many plastic and metals.
3. With initial strength, this resin can handle after 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 offer a surface oiliness and poor gloss.
6. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

	JB892-5A	JB892-5B
Appearance	Liquid	Liquid
Color	Colorless	Light pink clear
Viscosity 25°C, cps	8,000~10,000	3,000~5,000
	S14 50rpm	S14 100rpm

Typical Curing Properties*

Mix Rate (A : B) By Weight	1 : 1
Pot Life, 25°C, min	3
Tack Free Time, 25°C, min	5
Through Cure Time, 25°C, day	1

* A : B=1g : 1g

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.
6. It is recommended to use over 21 mixing elements of mixer for dispenser or dispensing machines.

Typical Cured Properties*1

Glass Transition Temp., (MDSC), °C	32
Specific Heat 0°C, J/g°C	1.05
Specific Heat 25°C, J/g°C	1.22
Specific Heat 50°C, J/g°C	1.61
Specific Heat 75°C, J/g°C	1.62
Specific Heat 100°C, J/g°C	1.63
Durometer Hardness, Shore D	78
Specific Gravity	1.23
Water Absorption Ratio (25°C / 24hr), %	0.46
Water Absorption Ratio (80°C / 24hr), %	3.97
Water Absorption Ratio (97°C / 1.5hr), %	2.52
Shear Strength*2 Al vs. Al, kg/cm ²	158
Shear Strength PC vs. PC, kg/cm ²	36
Shear Strength ABS vs. ABS, kg/cm ²	41
Degradation Temp., (TGA 10°C /min) °C	329
Weight Loss Ratio @ 100°C, %	0
Weight Loss Ratio @ 150°C, %	0.62
Weight Loss Ratio @ 200°C, %	0.75
Weight Loss Ratio @ 250°C, %	0.89
Weight Loss Ratio @ 300°C, %	1.60

*1 Specimen Cure Condition: 25°C / 1day

*2 Surface Roughening Treatment Specimen

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 is mercaptan content, 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.