



Epoxy for Potting

Product Description

JC222-2 is a two component epoxy for potting. This resin is easy to operate and exhibits perfect bonding for different substrates. Cured product has low outgassing and good thermal shock resistance. This resin can pass many environmental test experiments. This product is suited for plastics casting.

Features

1. This resin is solvent-free, non-volatile, system.
2. The hardening surface will not exhibit a surface oiliness and poor gloss.
3. The hardener of this product which is exposed in air will not yield a insoluble, whitish solid.
4. Cured resin has good surface gloss.
5. This product complies to the 2011/65/EU RoHS regulations.

Typical Uncured Properties

	JC222-2A	JC222-2B
Appearance	Liquid	Liquid
Color	Colorless	Yellow
Viscosity 25 °C, cps	12,000~18,000 S14 50rpm	46,000~70,000 S14 1rpm

Typical Curing Properties

Mix Rate (A:B) By Weight	1:1
Pot Life, 25 °C,min	60
Surface Dry Time, 25 °C,hr	3
Through Cure Time, 25 °C, days	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 volume 1:1. Mix approximately 15 seconds after uniform color is obtained.
3. For maximum bonding strength apply adhesive evenly to both surfaces to be jointed.
4. 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.
5. Cure time on the really part will depend upon factors such as part geometry, materials to be bonded, bondline thickness and efficiency of the oven. Cure schedule should be confirmed with actual production parts and equipment.

Typical Cured Properties*1

Glass Transition Temp., (DSC), °C	51
CTE*2 (20~40°C), μm/m/ °C	174
CTE*2 (80~120°C), μm/m/ °C	212
Durometer Hardness, Shore D	83
Degradation Temp, (TGA 10 °C /min) °C	322
Weight Loss Ratio@100°C, %	0
Weight Loss Ratio@150°C, %	0
Weight Loss Ratio@200°C, %	0.29
Weight Loss Ratio@250°C, %	1.72
Weight Loss Ratio@300°C, %	3.74
Weight Loss Ratio@350°C, %	7.16
Thermal Conductivity, W/mK	0.3
Thermal Resistance m²K/W	0.01
Volume Resistivity , ohm-cm	5*10 ¹⁵
Surface Resistivity , ohm	5*10 ¹⁴
Dielectric Constant 100Hz	4.1

*1 Specimen Cure Condition: 25°C / 3days

*2 CTE: Coefficient of Thermal Expansion

Storage and Shelf Life

It should be storage in cool and dark place in order to prevent the resin and hardener will become yellow under sunshine. Replace lid immediately after use. Keep without any possibility of wet when not using. This product has one year minimum shelf life 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. 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 Material Safety Data Sheet.