



Two Component Epoxy Adhesive

Product Description

JB925-30 is two-component epoxy designed especially for plastics, metals, and buildings. Cured product exhibits perfect surface gloss. This product is recommended as a general adhesive where convenience and speed at room temperature is desired. Cured product offers high adhesion strength, greasy resistance, chemical and solvent resistance. The crack and fatigue resistance of this product are outstanding in many vibrational applications. For its characteristic and reliability, this resin is recommended as a general adhesive for bonding plastics, metals and some construction materials, such as concrete and limestone.

Features

1. This product exhibits medium viscosity and excellent thixotropic properties. It is able to be also controlled flow and has sag resistance.
2. This product offers excellent retention of electrical insulation properties under high humidity conditions.
3. Cured product offers good adhesion strength to many plastics and metals.
4. This product offers outstanding shear and peel strength.
5. The retained strength of this product after environmental test experiments is excellent.
6. This product complies to the 2011/ 65/EU RoHS regulations.
7. This product complies to chlorine < 900ppm, bromine < 900ppm, chlorine + bromine < 1500ppm.

Typical Uncured Properties

	JB925-30A	JB925-30B
Appearance	Liquid	Liquid
Color	Milky	Yellow
Viscosity 25°C, cps	20,000~30,000	21,000~33,000
	S14 10rpm	S14 20rpm

Typical Curing Properties

Mix Ratio (A : B) by Weight	2 : 1
Pot Life 25°C, min	20
Tack Free Time 25°C, hr	2~3
Through Cured Time 25°C, day	5~7
Through Cured Time 80°C, min	60

Direction of Use

1. Mix thoroughly by weight 2 : 1. Mix approximately 15 seconds after uniform color is obtained.
2. This resin 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.
3. 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.

4. Cure time on the really part will depend on 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., (MDSC), °C	73
CTE*3 (60~70 °C) ,µm/m/ °C	115
CTE*3 (175~200°C) ,µm/m/ °C	204
Volume Shrinkage, %	3
Linear Shrinkage, %	1.73
Durometer Hardness, Shore D	84
Specific Gravity	1.17
Water Absorption Ratio (25°C /24hr), %	0.42
Water Absorption Ratio (80°C /24hr), %	6.03
Water Absorption Ratio (97°C /1.5hr), %	2.86
Shear Strength*2 Al vs. Al,kgf/cm ²	297
Shear Strength *2Al vs. PC, kgf	123
Shear Strength *2Al vs. PC(ABS), kgf	156
Shear Strength *2Al vs. Cu, kgf	198
Shear Strength *2SUS vs. Cu, kgf	187
Shear Strength *2SUSvs. PC(ABS), kgf	104
Trust *2FR4 vs. Al, kgf	96
Trust*2FR4 vs. PC, kgf	67
Degradation Temp., (TGA 10°C /min), °C	312
Weight Loss Ratio@100°C, %	< 0.5
Weight Loss Ratio@150°C, %	< 0.5
Weight Loss Ratio@200°C, %	0.35
Weight Loss Ratio@250°C, %	1.26
Weight Loss Ratio@300°C, %	3.79
Weight Loss Ratio@350°C, %	19.49
Volume Resistivity, ohm-cm	5*10 ¹⁵
Surface Resistivity, ohm	5*10 ¹⁴
Dielectric Constant 100Hz	4.1
Dielectric Strength, KV/mm	21
Temperature Resistance Range, °C	-40~120

*1 Specimen Cure Condition : 80°C/ 1hr + 150°C/ 30min

*2 Specimen Cure Condition : 80°C/ 1hr

*3 CTE: Coefficient of Thermal Expansion

Storage and Shelf Life

The container should be stored in cool and dark place. The resin and hardener will become yellow under the sunlight. Replace the lid immediately after use. Keep without any possibility of wet when not using. Shelf life of this product is 1 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 resin 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 specific information on this product, consult the Material Safety Data Sheet.

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.