EASYPOXY® K-230

EASYPOXY® K-230 Optically Clear Kit is a two-component, 100% solids system, which is used in thin films to bond glass. This adhesive is recommended for bonding substrates with widely different coefficients of expansion because of its cured resiliency. This same resiliency favors bonding elastomeric to rigid substrates. Its neutral color is an advantage where the bond line should not be noticeable.

Features	Benefits
Clear	Less noticeable bond line
Paste	Non-flow

TYPICAL PRODUCT CHARACTERISTICS

(THESE ARE TYPICAL DATA AND ARE NOT MEANT TO SERVE AS SPECIFICATIONS)

	K-230 Part A	K-230 Part B
Color	Clear	Light Amber
Viscosity	Light Paste	Light Paste
Solids Content	100%	100%
Specific Gravity @ 25° C	1.17	0.98
Mix Ratio, Parts by Weight	100	45
Shelf Life, from date of manufacture (in unopened containers)	18 months	18 months

TYPICAL CURED PROPERTIES

(THESE ARE TYPICAL DATA AND ARE NOT MEANT TO SERVE AS SPECIFICATIONS)

Color	Clear
Flexibility	Semi-Flexible
Water Absorption, %, 24 hour Immersion	0.37
Linear Shrinkage, %	0.67
Tensile Shear Strength, psi	
Etched AL/AL, 77°F	2450
Etched AL/AL, -67°F	1360
Etched AL/AL, 180°F	1520
Hardness, Shore D	80
Flexural Strength, psi	10,000
Compressive Strength, psi	18,000
Thermal Conductivity, cal/sec/cm^5/°C/cm x 10^{-4}	5.0
Fungus Resistance	Non-Nutrient

ELECTRICAL PROPERTIES

Dielectric Constant, 1 KHz at 25°C	4.60
Dissipation Factor, 1 KHz at 25°C	0.012
Volume Resistivity @ 25°C, ohm-cm	4.0 x 10^{13}

SURFACE PREPARATION

Apply to dry oil-free surfaces. Remove mold releases from plastic surfaces. When bonding metals, degrease and dry. Chemical etching the metal surface gives optimum results. For specific recommendations, request Cytec's Surface Preparation Guide, Bulletin AC-107.

PROCESSING PARAMETERS

Mix equal length beads from the convenient two-tube kit, or in bulk packages mix 100 pbw, Part A and 45 pbw, Part B. Values are average, based on several determinations and are not intended for use in preparation of specifications.

Pot Life of mixture is 60 minutes at 25°C, and cure is achieved in 24-36 hours at 25°C. Cure can be accelerated with heating at 65°C for 2 hours.

Apply adhesive with spatula or stiff brush to each surface. Apply light pressure to insure good wetting of the surface and good contact.

Clean equipment before the adhesive hardens; a good hydrocarbon solvent is recommended.

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STORAGE AND HANDLING

Recommended storage temperature is 65-85°F. If material is crystallized on opening, heat in oven at 120°F for 45-60 minutes.

EASYPOXY® K-230, Part A and Part B, have a shelf life of 18 months from date of manufacture when stored in their original, unopened containers at 65°-85°F.

CAUTION

For Industrial Use Only! Always read the Material Safety Data Sheets before using. Uncured materials contain epoxy resins, which are strong eye and skin irritants. Absorption through skin or breathing of vapors may cause serious health conditions. Avoid skin contact. Wear neoprene or nitrile gloves if hand contact is a possibility. If skin contact does occur, clean immediately with denatured alcohol, followed with soap and water. Use only in a well-ventilated place, or wear respirator with organic vapor cartridges, particularly if heated. These materials also contain crystalline silica, safely contained within the uncured and cured materials. However, grinding or sanding the cured material may release silica dust (a known cause of serious lung disease). Always ventilate and provide respiratory protection for sanding or grinding.

AVAILABILITY

EASYPOXY® K-230 is available in quart, gallon, and 5-gallon containers and in flexible squeeze tube kits.

An Evaluation Kit is available at a nominal cost.

"EASYPOXY" is a registered trademark of Cytec Industries Inc.

The information presented here is based on carefully conducted laboratory tests and is believed to be accurate. However, results cannot be guaranteed and it is suggested that customers confirm results in their own laboratory before plant tests are made. Nothing contained in this bulletin shall be construed as a recommendation to use any product or process in violation of the claims of any patent now in effect.

NOTICE: Precautionary labels and Materials Safety Data Sheet(s) for all materials referred to, whether the materials are produced by Cytec Industries Inc. or other manufacturers, should be fully read and understood by all supervisory personnel and employees before using. For additional safety and health information, contact Cytec Industries Inc. Purchaser has the responsibility for determining any applicability of and compliance with federal, state, and local laws and/or regulations involving labeling, use, and waste disposal, particularly in making consumer products.

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