

Technical data sheet



Product: 832B

Manufacturer: MG CHEMICALS

Product group: ELEKTRO

Article group: 2-K KLEBSTOFF

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MG CHEMICALS 832B

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832B



Black Epoxy, Encapsulating & Potting Compound

832B is a general purpose, rigid, 2-part black epoxy that provides extreme environmental, mechanical and physical protection for printed circuit boards and electronic assemblies.

832B can easily penetrate small gaps and cavities due to its low mixed viscosity. It also provides excellent electrical insulation and protects components from static discharge, vibration, abrasion, thermal shock, environmental humidity, salt water, fungus, and many harsh chemicals.

Features & Benefits

Low mixed viscosity of 3 300 cP

Extremely high compressive and tensile strength

Excellent adhesion to a wide variety of substrates including metals, composites, glass, ceramics, and many plastics

Excellent electrical insulating characteristics

Extreme resistance to water and humidity

Solvent-free

Cure Instructions

Allow to cure at room temperature for 24 hours, or cure in an oven at one of these time/temperature options:

Temperature	65 °C	80 °C	100 °C
Time	1 h	30 min	20 min

Storage and Handling

Store between 16 and 27 °C in a dry area, away from sunlight (see SDS). Storage below 16 °C can result in crystallization.



Available Packaging

Part #	Packaging	Net Vol.	Net Wt.
832B-375ML	2 Bottle kit	375 mL	403 g
832B-450ML	Dual cartridge	450 mL	484 g
832B-3L	3 Can kit	2.55 L	2.74 kg
832B-60L	3 Pail kit	60 L	64.6 kg

Dispensing Accessories

Part #	Dispensing Gun	Static Mixer
832B-450ML	8DG-450-2-1	8MT-450

Liquid Properties

Chemistry	Epoxy	—
Density	1.1 g/mL (Mixed) 1.1 g/mL (A) 1.0 g/mL (B)	ASTM D1475
Viscosity @ 25 °C	3 300 cP (Mixed) 2 500 cP (A) 5 300 cP (B)	Brookfield Engineering labs Inc. IPCTM-65- Method 2.4.24.4
Mix Ratio	2:1 (Volume) 2.3:1 (Weight)	—
Working Time ^a	3 h 15 min	—
Peak Exotherm ^b	106 °C	—
Shrinkage	1.4%	Calculated
Shelf Life	5 y	—

^aBased on 100 g sample. Varies by volume and geometry.

^bBased on a 250 g sample in a fixed container geometry.

Cured Properties

Flame Retardancy	No	—
Color	Black	—
Density	1.1 g/mL	Hydrostatic Weighing
Service Temperature Range	-40–140 °C	—
Intermittent Temperature	175 °C	—
Thermal Conductivity @ 25 °C	0.3 W/(m·K)	ASTM E1461
Specific Heat Capacity @ 25 °C	2.2 J/(g·K)	
Thermal Diffusivity @ 25 °C	0.1 mm ² /s	
Glass Transition Temperature (T _g)	49 °C	ASTM E1545
Coefficient of Thermal Expansion (CTE)	79 ppm/°C (Prior T _g) 196 ppm/°C (After T _g)	ASTM E831
Hardness	80 D	ASTM D2240
Tensile Strength	57 N/mm ²	ASTM D638
Compressive Strength	155 N/mm ²	ASTM D695

Cured Properties Continued

Lap Shear	17 N/mm ² (Stainless Steel) 16 N/mm ² (Aluminum) 3.5 N/mm ² (ABS) 2.3 N/mm ² (PC)	ASTM D1002
Resistivity	5.3 x 10 ¹² Ω·cm	ASTM D257
Breakdown Voltage @ 3.175 mm	55 300 V	ASTM D149
Dielectric Strength @ 3.175 mm	440 V/mil	
Dielectric Constant @ 1 MHz	2.8	ASTM D150
Dissipation Factor @ 1 MHz	0.02	
Chemical Absorption	15 % (Acetone)	—
Weight Gain, 30 days @ 25 °C	12 % (Ethyl Acetate) 0.7 % (IPA) 12 % (Toluene) 0.8 % (Sulphuric Acid 3%) 2.4 % (Sulphuric Acid 30%) 0.3 % (Acetic Acid) 0.1 % (10% NaOH) 0.1 % (10% NaCl) 0.2 % (Water) 0 % (Transmission Oil) 0 % (Transformer Oil) 0.9 % (Gasoline)	
Weight Loss @ 155 °C (600 h)	1.5 %	—

Application Instructions

Read the product SDS and Application Guide for more detailed instructions before using this product.

Recommended Preparation

Clean the substrate with 824 99.9% Isopropyl Alcohol, so the surface is free of oils, dust, and other residues.

Mixing

1. Scrape settled material free from the bottom and sides of the part A container; stir the contents until homogenous. Use a paint shaker if available.
2. Measure 2 parts by volume of the part A and pour into the mixing container. Ensure all contents are transferred by scraping the container.
3. Measure 1 part by volume of the part B and pour into the mixing container. Ensure all contents are transferred by scraping the container.
4. Thoroughly and gently mix parts A and B together. Avoid introducing air bubbles.
5. To de-air, let sit for 15 minutes or put in a vacuum chamber at 25 inHg for 2 minutes.
6. If bubbles are present at the top, break them gently with the mixing paddle.
7. Pour the mixture into a container holding the components to be protected.
8. Close the part A and B containers tightly between uses to prevent skinning.

Cartridge

1. Twist and remove the cap from the cartridge. Do not discard cap.
2. Dispense a small amount to ensure even flow of both parts.
3. (Optional) Attach static mixer.
 - a. Dispense and discard 5 to 10 mL of the product to ensure a homogeneous mixture.
 - b. After use, dispose of static mixer.
4. Without a static mixer, dispense material on a mixing surface or container, and thoroughly mix parts A and B together.
5. To stop the flow, pull back on the plunger.
6. Clean nozzle to prevent contamination and material buildup. Replace the cap on the cartridge.

If crystallization/solidification occurs, reconstitute the product by warming to between 55 and 65 °C until it becomes fully re-liquified. Let the material cool to room temperature before mixing, to prevent flash cure.

Mixing >500 g at a time decreases working time and can lead to a flash cure. Limit the size of hand-mixed batches. For large production volumes, contact MG Chemicals Technical Support for assistance.

Disclaimer: This information is believed to be accurate. It is intended for professional end-users who have the skills required to evaluate and use the data properly. M.G. Chemicals Ltd. does not guarantee the accuracy of the data and assumes no liability in connection with damages incurred while using it.

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