

Technical data sheet



Product: 832FX

Manufacturer: MG CHEMICALS

Product group: KLEBSTOFF

Article group: 2-K KLEBSTOFF

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832FX BLACK FLEXIBLE EPOXY

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Tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett

Telephone:
+49(0)7051/9297-0
Fax:
+49(0)7051/9297-99

E-Mail:
info@tewipack.de
Website:
www.tewipack.de

Managing director:
Alexander Uhl,
Michael Uhl
HRB 330424
Amtsgericht
Stuttgart

Bank details:
Sparkasse
Sindelfingen
Pforzheim
Calw
BLZ 666 500
85
Konto 17 787

Commerzbank
Sindelfingen
BLZ 603 400 71
Konto 8 001 166

Vereinigte
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708

832FX



Black Flexible Epoxy, Encapsulating & Potting Compound

832FX is a black, 2-part, flexible epoxy that offers extreme environmental, mechanical and physical protection for printed circuit boards and electronic assemblies.

This product is designed for applications where minimizing the physical stress on components is critical. It performs well in low temperature and arctic environments, as well as applications that involve temperature cycling or rapid temperature changes. It provides the functionality of silicone, but with the durability and cost-effectiveness of epoxy.



Features & Benefits

- Very low mixed viscosity of 700 cP
- Good 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 (allows for submersion where needed)
- Solvent-free

Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
832FX-450ML	2 Bottle kit	450 mL	475 g
832FX-1.7L	2 Can kit	1.7 L	1.79 kg
832FX-7.4L	2 Pail kit	7.4 L	7.82 kg
832FX-40L	2 Pail kit	40 L	42.2 kg

Contact Information

MG Chemicals, 1210 Corporate Drive
Burlington, Ontario, Canada L7L 5R6

Email: support@mgchemicals.com

Phone: North America: +(1)800-340-0772

International: +(1) 905-331-1396

Europe: +(44)1663 362888

Cured Properties

Resistivity	5.8 x 10 ¹² Ω·cm
Breakdown Voltage	36 300 V
Dielectric Strength	370 V/mil
Dissipation Factor @ 1 MHz	0.05
Dielectric Constant @ 1 MHz	3.1
Hardness	88 A
Tensile Strength	9.6 N/mm ²
Lap Shear (stainless steel)	2.5 N/mm ²
(aluminum)	3.4 N/mm ²
Glass Transition Temperature (T _g)	8.8 °C
CTE Prior T _g	114 ppm/°C
CTE After T _g	218 ppm/°C
Thermal Conductivity @ 25 °C	0.3 W/(m·K)
Service Temperature Range	-40–140 °C
Intermittent Temperature	-50–150 °C

Usage Parameters

Working Time	2.5 h
Mix Ratio by Volume	1:1
Mix Ratio by Weight	1.22:1

Uncured Properties

Mixed Density	1.1 g/mL
Density	(A) 1.1 g/mL
	(B) 1.0 g/mL
Viscosity @ 25 °C	(A) 0.8 Pa·s
	(B) 0.2 Pa·s
	(Mixed) 0.7 Pa·s

Application Instructions

Read the product SDS and Application Guide for more detailed instructions before using this product (downloadable at www.mgchemicals.com).

Recommended Preparation

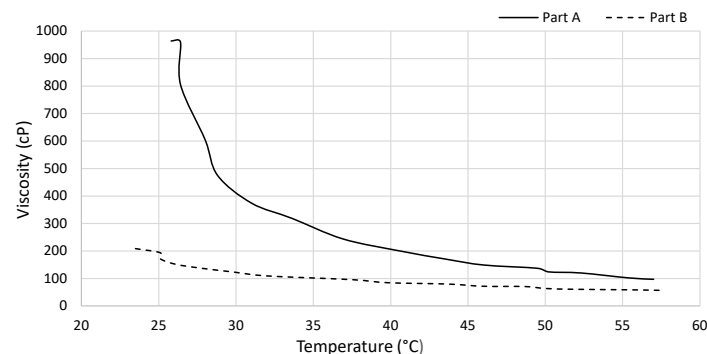
Clean the substrate with Isopropyl Alcohol, MG #824, so the surface is free of oils, dust, and other residues.

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 1 part 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.

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.

Viscosity vs. Temperature



Cure Instructions

Allow to cure at room temperature for 48 hours, or cure in an oven at one of these time/temperature options:

Temperature	45 °C	65 °C	80 °C	100 °C
Time	5 h	2 h	1 h	30 min

Storage and Handling

Store between 16 and 27 °C in a dry area, away from sunlight (see SDS). This product has a 5 year shelf life.

Disclaimer

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