9510

One-part Epoxy Potting Compound

9510 is a black, rigid, one-part epoxy potting compound. It is a heat cure epoxy that provides unlimited working time at room temperature and does not require frozen storage.

Our 1-part epoxy resin provides exceptional chemical resistance against a wide variety of mild to harsh chemicals, including toluene, acetone and ethyl acetate. It also provides excellent electrical insulation and protects against static discharge, vibration, thermal shock, environmental humidity, salt water, fungus, and many harsh chemicals.



Features & Benefits

- Minimum cure temperature of 80 °C
- Ready to dispense—no mixing is required
- Low viscosity of 4 800 cP
- Excellent chemical resistance
- Excellent adhesion to a wide variety of substrates, including metals, composites, glass, ceramics, and many plastics
- Extremely high tensile and compressive strength
- Excellent electrical insulating characteristics
- Extreme resistance to water and humidity
- Solvent-free

Available Packaging

Cat. No.	Packaging	Net Vol.	Net Wt.
9510-30ML	Cartridge	30 mL	33.6 g
9510-300ML	Cartridge	300 mL	336 g
9510-3.6L	Can	3.6 L	4.03 kg

Contact Information

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Cured Properties

Resistivity	2.6 x 10^{13}	Ω·cm
Breakdown Voltage	36 700	V
Dielectric Strength	540	V/mil
Hardness	84	D
Tensile Strength	20	N/mm^2
Compressive Strength	90	N/mm^2
Lap Shear (stainless steel)	9.2	N/mm^2
(aluminum)	5.8	N/mm^2
Glass Transition Temperature (T_g)	70	˚C
CTE Prior T_g	74	ppm/˚C
CTE After T_g	217	ppm/˚C
Thermal Conductivity @ 25 ˚C	0.3	W/(m·K)
Service Temperature Range	-65–150	˚C
Intermittent Temperature	295	˚C

Usage Parameters

Working Time	Unlimited
Cure Times	3 h @ 80 ˚C
	1 h @ 90 ˚C
	30 min @ 120 ˚C

Uncured Properties

Density	1.12	g/mL
Viscosity @ 25 ˚C	4.8	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.

Cartridge

1. Twist and remove the cap from the cartridge. Do not discard cap.
2. Dispense the adhesive evenly to both surfaces.
   a. For 30 mL size, insert the cartridge in the 8DG-30-1 dispensing gun (see Dispensing Accessories Application Guide).
3. To stop the flow, pull back on the plunger.
4. Clean nozzle to prevent contamination and material buildup.
5. Replace the cap on the cartridge.

Dispensing Accessories

Consult the table below for accessory selection. See the Dispensing Accessories Application Guide for usage instructions. 9510-300ML cartridges are compatible with caulking guns that are readily available for purchase at local hardware stores.

Cat. No.	Dispensing Gun	Static Mixer
9510-30ML	8DG-30-1	N/A
9510-300ML	N/A	N/A

Cure Instructions

The product will not cure at room temperature. Cure in an oven at one of these time/temperature options:

Temperature	80 °C	90 °C	120 °C
Time	3 h	1 h	30 min

Storage and Handling

Store between -40 and 22 ˚C in a dry area, away from sunlight (see SDS). Some of the components are sensitive to air. To maximize shelf life, always recap product firmly when not in use.

Shelf Life @ 22 ˚C	1 y
Shelf Life @ 4 ˚C	18 months
Shelf Life @ -10 ˚C	2 y

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.