



## Insulative Varnish for High Voltage Electrical Parts

MG Chemicals Insulation Coatings line is a unique line of varnish for electronics products intended to provide added insulation to high voltage parts such as transformer coils, motor windings and sheathing for wires. Characterized by high dielectric strength, these 1-part coatings adhere to a variety of substrates and offer exceptional protection against corrosion.

### Features & Benefits

- High dielectric strength
- Excellent resistance to moisture and salt water
- Excellent finish—tough, flexible, glossy, and durable

### Applications

- Replacement for shrink wrap or electrical tape
- Arc and corona resistance for transformer coils and motor windings
- Insulation coatings for electrical generators

### Clear Insulating Varnish

- **4226A** • Material Group I (CTI  $\geq 600$  V, PLC=0)
- Low VOC and HAP-free
- Toluene, xylene and MEK-free
- Dielectric strength: 3 000 V/mil

### Dielectric Coating

- **4228** • Meets UL EIS standards. Class H insulation up to 180 °C
- Dielectric strength: 3 000 V/mil
- Direct cross to Glyptal 1201A

### Red Insulating Varnish

- **4228A** • Material Group I (CTI  $\geq 600$  V, PLC=0)
- Dielectric strength: 3 700 V/mil
- Low VOC and HAP-free
- Available as both a liquid and aerosol

	<b>4226A</b>	<b>4228</b>	<b>4228A</b>
Resin Type	Acrylic, modified alkyd	Acrylic, modified alkyd	Acrylic, modified alkyd
<b>PROPERTIES</b>			
Dielectric Strength (dry) (wet)	3 000 V/mil —	3 000 V/mil 1 500 V/mil	3 700 V/mil —
Comparative Tracking Index (CTI)	600 V	—	600 V
Service Temperature Range	-30–180 °C	-40–180 °C	-40–180 °C
Dry to Touch	1 h	30 min	1 h
Recoat Time	15 min	4 h	10 min
Recommended Film Thickness	25–38 µm	25–38 µm	25–38 µm
Theoretical Coverage @ 25 µm (based on 65% transfer efficiency)	100 ft <sup>2</sup> /L	130 ft <sup>2</sup> /L	130 ft <sup>2</sup> /L
Viscosity @ 25 °C	50 cP	590 cP	800 cP
Density	0.96 g/mL	1.1 g/mL	1.0 g/mL
Percent Solids	45%	52%	55%
Shelf Life	5 y	5 y	5 y
Calculated VOC	520 g/L	514 g/L	561 g/L
<b>PACKAGING</b>			
Format	55 mL (Bottle) 426 mL (Aerosol) 945 mL (Can) 3.78 L (Can) 18.9 L (Pail)	55 mL (Bottle) 225 mL (Can) 850 mL (Can) 3.60 L (Can)	55 mL (Bottle) 850 mL (Can) 3.60 L (Can)

