

# Product Data Sheet

No. 1401 - 04/23

## INSULATING EPOXY COATING

### CARB MIR <2.0 (ELECTRICAL COATING)

PRODUCT NUMBERS: 401 - RED  
402 - BLACK  
403 - CLEAR

#### I. GENERAL DESCRIPTION

**Description:** Aervoe's Insulating Epoxy Coating is a tough, yet flexible coating for insulating coils, transformers, and other electrical components. Good adhesion, and high dielectric strength makes this product especially useful for coating turns on electrical windings that will be exposed to extreme moisture and oils. It penetrates thoroughly and air-dries tack free in 15 minutes, hardens in 1 hour. Superior to lacquers and acrylics. Epoxy Ester resin is rated Thermal Class F.

**Benefits:** Insulating Epoxy Coating allows for motor heat expansion and contraction. The flexible finish is resilient over time, and doesn't become brittle. Penetrates, coats and seals in one step. Protects equipment for long periods. This product has excellent moisture, oil, alkali, and chemical resistance.

**Application:** Use on field coils, exposed metal, windings, taped coils, frayed insulation, pitted motor windings, bus bars, collector rings, transformers, armatures, and commutator ends. Highly recommended for coating turns on electrical windings that are exposed to extreme moisture and oils.

**Directions:** Remove all loose dirt, dust, grease, wax, and rust particles from surface to be coated. For best results, apply at temperatures between 60°F and 80°F (16°C and 27°C). Second and subsequent finish coats may be applied at any time after previous coat has dried. Two light coats are better than one heavy coat. Dries to touch in 15 minutes, full cure in 48 hours. Shake can vigorously for one minute. Hold can approximately 10 inches from surface, press down on tip and keep can in motion. To prevent clogging, turn can upside down and spray for approximately three seconds to clear paint in valve. Do not use on electrical equipment or machinery while in operation.

**Limitations:** Please refer to the Safety Data Sheet for specific information on material hazards, etc. For industrial use in manufacturing facilities.

#### Packaging:

Cans - (16 oz.)	12.5 oz. net wt. (355 g)	15.61 fl. oz. (461 mL)
Case - 12 cans/case	14 lbs. (5.9 kg)	0.47 CF (0.013 CM)



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## II. CHARACTERISTICS & PROPERTIES (Average for all color)

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### Specifications:

None

### Appearance:

Gloss at <60° F .....85  
Class .....Non-flat

### Coverage:

Theoretical at- 1 mil dry .....17 sq. ft./can  
Practical - at 1/2 mil dry .....34 sq. ft./can

### Dry Schedule:

To touch .....15 min.  
To handle .....1 hr.  
Full cure .....48 hrs.  
To recoat .....Anytime

### Performance and Chemical Properties:

Weight per gallon .....7.29 lbs.  
Specific gravity .....0.84  
Viscosity .....Not applicable  
Flammability: Label marking .....Extremely Flammable  
Flash point .....<0°F (-18°C)  
Operating temperature range .....60° to 80°F (16° to 27°C)  
Percent solids by weight .....15%  
Percent solids by volume .....10%  
Percent pigment by volume .....2%  
CARB MIR (electrical coating) .....<2.0  
Dielectric strength .....3,900 volts/mil  
Interior durability .....Excellent  
Exterior durability .....Not applicable  
Temperature resistance .....Class F  
Color fastness .....Excellent  
Adhesion .....Excellent  
Mineral Spirits resistance .....Very good  
Gasoline resistance .....Very good  
Motor oil resistance .....Excellent  
Pencil hardness .....HB  
Food contact rating .....Not applicable

### Base Materials

Resin system.....Epoxy Ester  
Solvents (top two) .....Acetone, N-Butyl Acetate  
Propellant.....Dimethyl Ether

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## III. SHIPPING, STORAGE AND HEALTH

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UN number.....1950  
Proper Shipping Description .....Aerosols  
Hazard Class.....2.1  
Packing Group .....N/A  
Limited Quantity .....Yes  
Warehouse storage level number .....NFPA 30B Level 2  
Storage temperature .....32° to 120°F (0° to 49°C)  
Shelf life .....1 to 2 years

### HMIS ratings

Health .....1  
Fire .....3  
Reactivity.....1

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## IV. MISCELLANEOUS

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Contains no Ozone Depleting Substances (O.D.S.)

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## V. WARRANTY

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1-year warranty to the original registered owner on all products from date of purchase. User returns, exchanges and defective refunds must be made with the original place of purchase. Because Aervoe cannot control Buyer's handling or use of product, Aervoe makes no warranty expressed or implied when not used or stored in accordance with directions. Aervoe shall not be liable for cost of labor, incidental or consequential damages, and this warranty is limited to replacement or repair of product or credit of purchase.