



TECHNICAL DATA SHEET

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DOLPHON[®] CR-1034-H

RED EPOXY BUTTERING KIT

PRODUCT DESCRIPTION

CR-1034-H is a semi-rigid, two-part, room curing epoxy resin specifically formulated for encapsulation by buttering on electric motors.

FEATURES & BENEFITS

- Excellent adhesion for electrical and electronic applications
- Supplied in kit form for easy measuring of resin and reactor
- Optimum electrical properties
- Thixotropic consistency, no sagging
- Can be used for bonding and "glob" top applications
- Excellent abrasion, chemical and moisture resistance

TYPICAL APPLICATIONS

- Electric motors
- Stators
- Coil ends, marginal ends of transformers
- Armatures
- Steel/glass/ceramic

TYPICAL PROPERTIES

Physical

	<u>CR-1034H-A</u>	<u>CR-1034H-B</u>	<u>Mixed</u>
Appearance/Color	Red	Clear Amber	Red
Density @ 77°F (25°C), Lbs/gal	12 –12.5	7.8 – 8.2	
Viscosity, Brookfield @ 77°F (25°C),	Paste	50 - 150	Paste
Mix Ratio, weight	100	5	
Pot life @ 77°F (25°C), Hours			1 – 1.5
Cure Time, initial cure (full cure), Hours			3 – 4 (24)

Mechanical

Tensile Strength, psi - ASTM D-638-60T	7,900
Thermal Conductivity, cal./sec./cm²/°C/cm	9.0 x 10⁻⁴
Water Absorption, % ASTM D-570-59aT	0.4
Hardness, Shore D	80

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Electrical

Dielectric Strength, 1/8" specimen, (volts/mil)	390
Surface Resistivity, ohms	5.0×10^{12}
Volume Resistivity, ohm/cm	6.5×10^{13}

Chemical Resistance

Most solvents, acids and bases	Excellent
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MIXING

Mix 100 parts of resin to 5 parts of reactor by weight. Mix slowly to avoid stirring excessive air into the mixture. To assure thorough blending, scrape the side of the container during mixing. NOTE: A 50 pound kit is supplied with a graduate cylinder. Mix 22 cc of reactor to 1 pound of resin.

POT LIFE

The pot life of the mixed compound will be approximately 1½ hours at 77°F, depending on quantity of material being mixed.

PACKAGING

CR-1034-H is conveniently packaged in 1 pound, 2 pound, 8 pound and 50 pound kits.

PREPARATION OF UNIT

1. Varnish and bake unit with *Dolphon* epoxy varnish or a *Hi-Therm* varnish. *Dolphon* epoxy varnish will produce an all-epoxy system.
2. Cool unit to 110-130°F before applying compound.

Application and Cure

Apply mixed compound to the unit with a spatula or stick. After material has partially set, wipe smooth with a Xylol soaked rag.

Gels at room temperature in 3 to 4 hours and cures overnight. To accelerate cure, bake for 3 hours at 140°F.

STORAGE AND SHELF LIFE

Store in a cool (65-75°F/18-24°C) dry place away from direct sunlight. Shelf life is one year @ 77° F(25° C) or cooler. Product must be kept covered to prevent contamination or moisture absorption during storage.

SAFETY/ENVIRONMENT

CAUTION: May cause skin irritation or eye injury. Wash exposed area with soap and water immediately after contact. Use in well-ventilated area.

See Material Safety Data Sheet

AUTHORIZED DISTRIBUTOR

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