



TECHNICAL DATA SHEET

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DOLPHON[®] CC-1094

POLYESTER POUR-ON RESIN KIT

PRODUCT DESCRIPTION

CC-1094 is a semi-rigid, two-part, rapid heat curing polyester resin specifically formulated for impregnating and sealing stators for electric motors.

FEATURES & BENEFITS

- Fast, low temperature cure
- Easy to use
- Excellent electrical and physical properties
- Can be used on Class A, B, F & H motors
- Low viscosity for good penetration
- Excellent moisture and chemical resistance
- 4 hour pot life
- Good for sand potting applications
- Economical

TYPICAL APPLICATIONS

- Stators
- Armatures
- Coils
- Transformers
- Motors
- Generators

TYPICAL PROPERTIES

Physical

Color/Appearance	Clear/Amber
Viscosity @ 77°F (25°C), Brookfield, cps	180 –220
Density @77°F (25°C), Lbs/gal, WPG	8.8 – 9.4
Gel Time @ 132°F (57°C), minutes, 3% MEK Peroxide	12 - 25
Hardness, Shore D	78

Electrical

Dielectric Strength, ASTM D-149, volts/mil	2,000
Insulation Resistance @ 25°C (77°F)	∞
Insulation Resistance @ 155°C (311°F), megohms	3,000

Chemical Resistance

Most Solvents, Acids and Bases	Excellent
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MIXING

Mix Dolphon[®] CC-1094 resin and catalyst slowly to avoid stirring excessive air into the mixture. Scrape sides of the container during mixing to assure thorough blending. Do not add catalyst to hot resin.

(NOTE: 45 pound kits are supplied with a graduate cylinder: Mix 14cc of catalyst to one pound of resin.)

PACKAGING AND POT LIFE

CC-1094 is conveniently packaged in 1 pound, 2 pound and 45 pound kits. Pot life of the catalyzed resin, 100 gram mass, is 4 hours at 70°F.

PREPARATION OF UNIT

Preheat stator to about 66°C (150°F) by inducing low voltage into the windings or place in 77°C (170°F) oven, until stator reaches 77°C (170°F). Check temperature with pyrometer. NOTE: Temperature over 93°C (200°F) may prevent optimum penetration of resin into slot area.

APPLICATION GUIDELINES

1. Place drip pan under part to be treated.
2. Pour mixed CC-1094 slowly over hot windings (bore in vertical position) until resin flows through the slots to opposite end.
3. Reverse stator and pour on resin until end turns are covered.
4. If necessary, smooth excess material on bottom of coil by lightly brushing prior to cure.

CURE

1. Continue energizing winding at 150°F, or place stator in 170°F oven for 15 minutes
2. De-energize windings or remove stator from oven and assemble motor when cool.

STORAGE AND SHELF LIFE

Shelf life uncatalyzed CC-1094 is six months from date of shipment from our plant, when stored in closed containers at 70°F or below.

1. Store in cool, dry place at 70°F/21°C or below.
2. Protect from direct sunlight.
3. Keep away from heat, sparks and open flame.

SAFETY ENVIRONMENT

Avoid contact with skin and eyes. See Material Safety Data Sheet

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