



TECHNICAL DATA SHEET

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DOLPHON[®] CB-1128

FLEXIBLE BLACK MOTOR COMPOUND

PRODUCT DESCRIPTION

CB-1128 is a unique, two part resin formulated for motor and generator encapsulation. It is available in pre-packaged kits and bulk.

FEATURES & BENEFITS

- Excellent impact and abrasion resistance
- Excellent thermal conductivity
- Superior water, moisture and chemical resistance
- Flexible over wide temperature ranges (65°C to +155°C)
- Brush or spray applications
- Withstands thermal shock
- Forms protective seal coat
- Tough and flexible
- Works well in harsh environments
- Excellent resistance to chemical attack
- Crack resistant
- Salt resistant

TYPICAL ELECTRIC MOTOR APPLICATIONS (Where used)

- Sand Pits
- Stone Quarries
- Cement Plants
- Meat Packing Plants
- Canneries
- Poultry Processing Plants
- Dairies
- Breweries
- Telecommunications
- Wood Pulp Plants
- Paper Mills
- Textile Mills
- Dyeing Plants
- Wind Mills
- Automotive (on and off-road) applications
- Marine applications

TYPICAL PROPERTIES (mixed w/CB-1128-B)

Physical

Appearance/Color	Black
Density @ 77°F (25°C), Lbs/gal	8.8 – 9.0
Viscosity, Brookfield Model RVT Spindle TA, @ 80°F, 10 rpm	100,000 cps
Mix Ratio, by weight	100:6
Pot Life @ 77°F, Hours	¾ - 1
Cure Time @ 77°F, Hours	2 - 4
Shrinkage During Cure, %	NA
Hardness, Shore "A" @ 70°F	45
Typical Operating Temperature, °C	130

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Mechanical

Tensile Strength, psi (ASTM - D-638-60T)	1,260
Thermal Conductivity (cal./sec./cm ² /°C/cm)	12.2 x 10 ⁻⁴
Water Absorption, % (ASTM D-570-59aT)	.01

Electrical

Dielectric Strength, 1/8" specimen (volts/mil)	665
Surface Resistivity (ohms)	3.06 x 10 ¹⁴
Volume Resistivity (ohm-cm)	1.78 x 10 ¹⁵

Chemical Resistance

Most Solvents, Acids and Bases	Excellent
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PREPARATION OF RESIN

For brushing and squeeze bottle application: combine Part A and Part B. Mix slowly to avoid stirring in excessive air, and scrape side of container to assure complete mixing. For spraying application: blend the solvent thoroughly into the resin (Part A) before adding the reactor (Part B). Thin to spraying consistency with up to 30-40% T-200X. Use sufficient T-200X to achieve a suitable viscosity for spraying equipment.

APPLICATION AND CURE**Brush on Method**

1. Varnish and bake unit.
2. Cool to 100-120°F.
3. Brush resin into slot area and wipe laminations With T200X soaked cloth.
4. Brush on coil ends being sure to seal slot ends completely.
5. Use squeeze bottle for hard to reach places.
6. Allow to cure at room temperature for 3-4 hours

Spraying

1. Varnish and bake unit.
2. Cool to approximately 150°F.
3. Spray unit using Dolph Spray gun at approximately 60 psi.
4. Clean off excess resin using T-200X soaked cloth.
5. Allow to cure at room temperature for 10-12 hours.

CLEAN UP

Dolphon CB-1128, when cured, is very resistant to strippers and solvents and is difficult to remove by sanding or machining. Therefore, it is important to clean up excess resin from parts and tools before it has set. Solvents such as T-200X may be used.

CURE

On initial cure, the resin will become firm and tack-free. Units may be handled and assembled. After several days at room temperature, CB-1128 will reach a harder, tougher condition. After initial cure at room temperature, aging can be accelerated by baking at 200°F for several hours.

STORAGE AND SHELF LIFE

One year from date of shipment from our plant when stored in closed containers at 70 ° F or below. Avoid exposure to moisture or high humidity..

SAFETY/ENVIRONMENT

See Material Safety Data Sheet.

AUTHORIZED DISTRIBUTOR
