



- TECHNICAL DATA SHEET -

DOLPHON CB-1128
FLEXIBLE MOTOR COMPOUND 155°C

DESCRIPTION

Dolphon CB-1128 is a new product formulated to replace epoxies and silicones for motor encapsulation and coating. This unique flexible compound cures to a tough, resilient, glossy black coating that seals against moisture and chemicals attacks. DOLPHON CB-1128 is exceptionally resistant to abrasion because it absorbs the impact of flying metallic particles. DOLPHON CB-1128 can be applied by brushing or spraying and cures to form a protective seal coat having the following outstanding characteristics:

- Elasticity that absorbs impacts and resists abrasion.
- Good thermal conductivity helps offset overheating.
- Superior resistance to water and moisture vapor transmission.
- High-low temperature flexibility that prevents cracking.
- Excellent resistance to chemicals attacks including acids and alkali.

Recommended uses

This tough, flexible coating is recommended for use on motors and other devices that will operate in harsh environments such as stone quarries, mines, cement factories, steel plants, meat processing and packing, dairies, breweries, paper mills and chemical plants.

CHARACTERISTICS

Physical properties

Specific gravity at 25°C			1.100+50 gr./lt.
Viscosity Brookfield RVT/Mod.II/25°C/Sp.TA/Rpm1 (Cps)			80.000/120.000
Tensile strength, p.s.i.(ASTM D-638-60T)			1.260
Thermal conductivity (cal/sec/cm ² /°C/cm)	<i>W/mK</i>	<i>0,33-0,36</i>	12.2x10 ⁻⁴
Water absorption, (ASTM D-570-59T)			0,01%
Hardness, Shore "A" at 20°C			40-50
Chemical Resistance (most solvent, acids and bases)			excellent

Electrical Properties

Dielectric Strength, 1/8" specimen	660 Volts/mm.0,025
Surface Resistivity (ohms)	3,06 x 10 ¹⁴
Volume Resistivity (ohm-cm)	1,78 x 10 ¹⁵



APPLICATION

Mix ratio

Dolphon CB-1128 should be mixed in the ratio of 100 parts of resin to 6 parts of Reactor by weight. For brushing applications it will be enough to mix thoroughly the two components, stirring slowly to avoid air incorporation. Make sure to scrape sides and bottom of the container to assure that the mixture is uniform.

For spraying thin the mixed compound with 10-20% of xylene or with our thinner 4012 bringing it to a viscosity suitable for spraying application. We suggest to use spray guns having large nozzles. The pot-life of the mixed compound is approximately 45 minutes at 20°C; for the diluted compound of approximately 1 hour at 20°C.

By brushing

1. Dip and bake the unit in an impregnation varnish or resin;
2. Cool to 40-50°C;
3. Apply the resin in the slot area and clean laminations with a solvent soaked cloth;
4. Apply the resin on the winding heads making sure that the slots ends are completely sealed;
5. Allow to cure at room temperature for 10-12 hours.

By spraying

1. Dip and bake the unit in an impregnation varnish or resin;
2. Cool to 40-50°C;
3. Apply the resin with a spray gun;
4. Clean the resin excess from the laminations with a solvent soaked cloth;
5. Allow to cure at room temperature for 10-12 hours.

In case of previously impregnated units DOLHPON CB-1128 can be applied on the winding at room temperature.

When cured DOLPHON CB-1128 is very resistant to strippers and solvents, and is difficult to remove by sand blasting or machining; so it is important to eliminate the resin excess and clean the tools before the resin to cure completely.

Cure

After initial cure, the resin will become firm and tack free. Units may be handled and assembled. In the meantime the resin continues its hardening, and after some days at room temperature will reach a harder and tougher condition. After the initial cure at room temperature the hardening can be accelerated by baking the unit into an oven for some hours at 80-90°C.

Warning: All the information and application instructions concerning this product are based on technical specifications that we consider reliable, and are provided by way of example, according to our application experience. They do not establish any guarantee but only represent a starting point subject to alterations, according to the application and the kind of material to be treated. Before the product's use the user must determine the suitability for the intended use undertaking all risks and responsibility for whatever may happen in connection with the application. The producer and/or seller will not be considered responsible for any accident, loss or damage (immediate or consequent) originating from the use and/or the inability to use the concerned product. Albesiano Sisa Vernici srl reserves the right to change or modify at any time and without any notice the technical specifications of the product described in this data sheet.

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