

HumiSeal 1B73EPA Aerosol

Polyurethane conformal coating

System Description

HumiSeal 1B73EPA Aerosol is a fast drying, clear acrylic coating available in convenient aerosol cans. This product is qualified to MIL-I-46058C, Type AR and utilizes an environmental safe, non-ODC propellant. Air dries to a hard, durable, yet flexible film. The cured coating may be soldered through for replacement or repair of components leaving no residue. If desired, the coating may be removed chemically using our HumiSeal Stripper. Contains UV tracer for inspection under black light. 1B73EPA Aerosol is intended as a conformal coating for use on printed circuit assemblies. Its wide range application includes use on coils, connector housings, etc. It is an effective moisture sealant and provides corrosion protection on various metal surfaces. 1B73EPA Aerosol is also available in liquid form. U.L. recognized under the Component Program of Underwriters Laboratories, Inc., File Number E 105698.

Properties

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| Drying Time To Handle Fed-Std-141, Meth.4061 | 10 minutes |
| Recommended Curing Conditions | 24 hrs. @ rm. temp or 2 hrs. @ 76°C |
| Time Required to Reach Optimum Properties | 7 days |
| Shelf life | 12 months |
| Continuous Use Operating Range°C | -65° to 125°C |
| Solderability | Excellent |
| Flexibility, per MIL-I-46058C | Passes |
| Dielectric Withstand Voltage, volts per MIL-I-46058C | >1,500 |
| Dielectric Breakdown Voltage, volts, per ASTM, Meth. D149 | 6300 |
| Dielectric Constant, at 1MHz and 25°C, per ASTM-D150-54T | 2.6 |
| Dissipation Factor, at 1MHz and 25°C, per ASTM-D150-54T | 0.010 |
| Insulation Resistance, ohms, per MIL-I-46058C | 250 10^{12} |
| Moisture Resistance, ohms, per MIL-I-46058C >1,500 | 70 x 10^9 |

For directions of use see next page.

Directions for Use

1. Surface must be cleaned of dirt, wax, grease and all similar contaminants for successful application of coating.
2. Mask areas not requiring coating from overspray. Mylar backed tapes are usually effective. (HumiTape HT-500)
3. Shake vigorously before using and repeat frequently during use.
4. Best results are obtained by spraying from a distance of 12-15 inches in light even coats. A film thickness of 2 to 3 mils is usually sufficient to provide protection.
5. To clean nozzle after use, hold can upside down, then press nozzle for a few seconds.
6. Allow 48 hours minimum before using cans stored or received during cold weather.
7. When applied in conditions of high ambient humidity, blushing (cloudy white film) may appear. This condition is easily eliminated by heating the coated assembly in an oven for 1/2 hour at 76.7°C.

Precautions

Use in well ventilated area. This product contains flammable solvents and should be stored away from heat and ignition sources. Harmful if swallowed. If swallowed, do not induce vomiting. Call a physician immediately. Avoid spraying into eyes. Keep out of reach of children.

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