

HumiSeal® 1B73 Aerosol Conformal Coating

Technical Data Sheet

HumiSeal® 1B73 Aerosol is a fast drying, clear acrylic conformal coating, intended for use on printed circuit assemblies. The product is conveniently dispensed from aerosol cans utilizing an environmentally safe, non-ODP propellant, and contains UV tracer for inspection under black light. The coating may be removed chemically using HumiSeal® Stripper 1080 or 1080A. HumiSeal® 1B73 Aerosol is IPC-CC-830 and RoHS Directive 2011/65/EU compliant.

Properties of HumiSeal® 1B73 Aerosol

Density, per ASTM D1475	0.74 ± 0.02 g/cm ³
Solids Content, % by weight per Fed-Std-141, Meth. 4044	7 ± 1 %
VOC	687.5 grams/litre
Drying Time to Handle per Fed-Std-141, Meth. 4061	30 minutes
Recommended Coating Thickness	25 - 75 microns
Recommended Curing Conditions	24 hrs @ RT or 2 hrs @ 76°C
Time Required to Reach Optimum Properties	7 days
Recommended Stripper	HumiSeal® Stripper 1080, 1080A
Shelf Life at Room Temperature, DOM	24 months
Thermal Shock, 50 cycles per MIL-I-46058C	-65°C to 125°C
Coefficient of Thermal Expansion - TMA	67 ppm/°C
Glass Transition Temperature - DSC	42°C
Modulus - DMA	11.1 MPa
Dielectric Withstand Voltage, per MIL-I-46058C	>1500 volts
Dielectric Breakdown Voltage, per ASTM D149	6300 volts
Dielectric Constant, at 1MHz and 25°C, per ASTM D150-98	2.6
Dissipation Factor, at 1MHz and 25°C, per ASTM D150-98	0.010
Insulation Resistance, per MIL-I-46058C	5.5 x 10 ¹⁴ ohms (550TΩ)
Moisture Insulation Resistance, per MIL-I-46058C	7.0 x 10 ¹⁰ ohms (70GΩ)
Fungus Resistance, per ASTM G21	Passes

Application of HumiSeal® 1B73 Aerosol

1. Allow 48 hours minimum to reach room temperature before using cans stored or received during cold weather.
2. When applied in conditions of high ambient humidity, blushing (cloudy white film) may appear. Heating the coated assembly in an oven for 1/2 hour at 76°C eliminates this condition.
3. Surface must be cleaned of dirt, wax, grease, flux residues and all similar contaminants for successful application of coating.
4. Mask areas not requiring coating from overspray, using suitable non-silicone masking methods or materials.
5. Shake can vigorously before using and repeat frequently during use.
6. Best results are obtained by spraying from a distance of 30 - 40cm in light even coats. A film thickness of 25 - 75 microns is sufficient to provide protection.
7. To clean nozzle after use, hold can upside down, then press nozzle for a few seconds.

Caution

Application of HumiSeal® Conformal Coatings should be carried out in accordance with local and National Health and Safety regulations.

The solvents in HumiSeal® Conformal Coatings are flammable. Material should not be used in presence of open flame or sparks. Use only in well-ventilated areas to avoid inhalation of vapours or spray. Avoid contact with skin and eyes.

Consult SDS prior to use.

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