

# HumiSeal 1B31™ Aerosol Conformal Coating

## Technical Data Sheet

HumiSeal 1B31™ 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. HumiSeal 1B31™ Aerosol is IPC-CC-830 and RoHS Directive 2002/95/EC compliant.

### Properties of HumiSeal 1B31™ Aerosol

Drying Time to Handle Fed-Std-141, Meth. 4061	10 minutes
Recommended Curing Conditions	24 hrs. @ RT or 30 min @ 76°C
Time Required to Reach Optimum Properties	7 days
Shelf Life, DOM	12 months
Thermal Shock, 50 cycles per MIL-I-46058C	-65°C to 125°C
Recommended Coating Thickness, microns	25 - 75
Recommended Stripper	HumiSeal Stripper 1080
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 x 10 <sup>12</sup> (250T)
Moisture Insulation Resistance, ohms per MIL-I-46058C	70 x 10 <sup>9</sup> (70G)

### Application of HumiSeal 1B31™ 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

The solvents in HumiSeal 1B31™ Aerosol 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 MSDS prior to use.

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