

HumiSeal 1A27™ Aerosol Conformal Coating

Technical Data Sheet

HumiSeal 1A27™ Aerosol is a fast drying, clear urethane 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 1063. HumiSeal 1A27™ Aerosol is IPC-CC-830 and RoHS Directive 2002/95/EC compliant, and recognized under UL File Number E105698.

Properties of HumiSeal 1A27™ Aerosol

Recommended Coating Thickness, microns	25 - 75
Drying Time to Handle per Fed-Std-141, Meth. 4061	15 minutes
Time Required to Reach Optimum Properties	30 days @ RT 30 hours @ 76°C 20 hours @ 88°C
Shelf Life, DOM	6 months
Thermal Shock, 50 cycles per MIL-I-46058C	-65°C to 125°C
Dielectric Withstand Voltage, volts per MIL-I-46058C	>1,500
Dielectric Breakdown Voltage, volts per ASTM, Meth. D149	7500
Dielectric Constant, at 1MHz and 25°C per ASTM-D150-54T	3.6
Dissipation Factor, at 1MHz and 25°C per ASTM-D150-54T	0.02
Insulation Resistance, ohms per MIL-I-46058C	200 x 10 ¹² (200T)
Moisture Resistance, ohms per MIL-I-46058C	12 x 10 ⁹ (12G)

Application of HumiSeal 1A27™ 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 1A27™ 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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