

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. HumiSeal 1B73™ Aerosol is IPC-CC-830 and RoHS Directive 2002/95/EC compliant.

Properties of HumiSeal 1B73™ Aerosol

Drying Time to Handle Fed-Std-141, Meth. 4061	10 minutes
Recommended Curing Conditions	24 hrs @ RT or 2 hrs @ 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 ¹² (250T)
Moisture Insulation Resistance, ohms per MIL-I-46058C	70 x 10 ⁹ (70G)

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

The solvents in HumiSeal 1B73™ 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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Contact HumiSeal

HumiSeal North America

201 Zeta Drive
Pittsburgh, PA 15238
USA
Tel: +1 412-828-1500
Toll Free (US only): 866-828-5470
sales@humiseal.com

HumiSeal Technical Center

295 University Avenue
Westwood, MA 02090
USA
Tel: +1 781-332-0734
Fax: +1 781-332-0703
techsupport@humiseal.com

HumiSeal Europe

Albany Park, Frimley Road
Camberley, Surrey GU16 7PH
UK
Tel: +44 (0)1276 691100
Fax: +44 (0)1276 691227
europesales@chasecorp.com

HumiSeal Europe Support

Tel: +44 (0)1276 691100
Fax: +44 (0)1276 691227
europetechsupport@chasecorp.com

HumiSeal S.A.R.L

4/6 Avenue Eiffel
78420 Carrieres-Sur-Seine
France
Tel: +33 (0) 1 30 09 86 86
Fax: +33 (0) 1 30 09 86 87
humiseal.sarl@chasecorp.com

HumiSeal Asian Support

Tel: 852-9451-6434
Fax: 852-2413-6289
asiatechsupport@humiseal.com

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