

HumiSeal® 1B78 Acrylic Conformal Coating Provisional Technical Data Sheet

HumiSeal® 1B78 is a single component, fast drying, acrylic conformal coating intended for use on printed circuit assemblies.

1B78 has been especially formulated to have:

- Excellent application properties with improved de-foaming properties compared to tradition acrylic coatings.
- Improved adhesion to substrates, especially modern 'no clean' manufacturing technologies

HumiSeal® 1B78, demonstrate excellent flexibility and electrical properties, fluoresce under UV light for ease of inspection and are easily repairable. HumiSeal® 1B78 coating is IPC-CC-830 and RoHS Directive 2002/95/EC compliant.

Properties of HumiSeal® 1B78

Density, per ASTM D1475	0.93 ± 0.02 g/cm ³
Solids Content, % by weight per Fed-Std-141, Meth. 4044	27.5 ± 2 %
Viscosity, per Fed-Std-141, Meth. 4287	250 ± 20 centipoise
VOC	674 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 Thinner	HumiSeal® Thinner 73/600
Recommended Stripper	HumiSeal® Stripper 1080
Surface Insulation Resistance IPC TM 650	9.39 LogOhms
Adhesion to no clean PCBs	Excellent

Application of HumiSeal[®] 1B78

Conformal coatings can be successfully applied to substrates that have been cleaned prior to coating and also to substrates assembled with low residue, 'no clean' assembly materials. Users should perform adequate testing to confirm compatibility between the conformal coating and their particular assembly materials, process conditions and cleanliness level. Please contact Humiseal for additional information

Storage

HumiSeal[®] 1B78 and Pre-Blends should be stored away from excessive heat or cold, in tightly closed containers. HumiSeal[®] products may be stored at temperatures of 0 to 35°C. Prior to use, allow the product to equilibrate for 24 hours at a room temperature of 18 to 32°C.

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 MSDS/SDS prior to use.

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