

HumiSeal® 1B31/521 PB60 Acrylic Conformal Coating **Technical Data Sheet**

HumiSeal® 1B31/521 PB60 is a fast drying, single component, acrylic coating that has been formulated for use in automated spray equipment without requiring additional thinning. HumiSeal® 1B31/521 PB60 demonstrates excellent flexibility, fluoresces under UV light for ease of inspection and is easily repaired.

Properties of HumiSeal® 1B31/521 PB60

Density, per ASTM D1475

Solids Content, % by weight per Fed-Std-141, Meth. 4044

Viscosity, per Fed-Std-141, Meth. 4287

VOC

Drying Time to Handle per Fed-Std-141, Meth. 4061

Recommended Coating Thickness Recommended Curing Conditions

Time Required to Reach Optimum Properties

Recommended Stripper

Shelf Life at Room Temperature, DOM Thermal Shock, 50 cycles per MIL-I-46058C Coefficient of Thermal Expansion - TMA

Glass Transition Temperature - DSC

Modulus - DMA

Dielectric Withstand Voltage, per MIL-I-46058C Dielectric Breakdown Voltage, per ASTM D149

Dielectric Constant, at 1MHz and 25°C per ASTM D150-98

Dissipation Factor, at 1MHz and 25°C per ASTM D150-98

Insulation Resistance, per MIL-I-46058C

Moisture Insulation Resistance, per MIL-I-46058C

Fungus Resistance, per ASTM G21

0.91 ± 0.02 g/cm³

26 ± 2 %

60 ± 5 centipoise

592 grams/litre

10 minutes

25 - 75 microns

24 hrs @ RT or 30 min @ 76°C

HumiSeal® Stripper 1080

24 months -65°C to 125°C

55 ppm/°C

14°C

2000 MPa @ -40°C

1050 MPa @ 20°C

8.5 MPa @ 60°C

>1500 volts

7500 volts

2.5

0.01

8.0 x 10^{14} ohms (800T Ω) 6.0 x 10^{10} ohms (60G Ω)

Passes

Application of HumiSeal® 1B31/521 PB60

Cleanliness of the substrate is of extreme importance for the successful application of a conformal coating. Surfaces must be free of moisture, dirt, wax, grease, flux residues and all other contaminants. Contamination under the coating could cause problems that may lead to assembly failures.

Spraying

HumiSeal® 1B31/521 PB60 can be sprayed using automated spraying equipment. Spraying should be done in an environment with adequate ventilation so that the vapour and mist are carried away from the operator.

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Storage

HumiSeal® 1B31/521 PB60 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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