

## HumiSeal® 1R32PB65 Acrylic Conformal Coating Technical Data Sheet

HumiSeal® 1R32PB65 is a fast drying, single component, acrylic coating that has been formulated for use in automated spray equipment without requiring additional thinning. HumiSeal® 1R32PB65 demonstrates excellent flexibility, fluoresces under UV light for ease of inspection and is easily repaired. HumiSeal® 1R32PB65 coating is RoHS Directive 2002/95/EC compliant.

### Properties of HumiSeal® 1R32PB65

Density, per ASTM D1475	0.90 ± 0.02 g/cm <sup>3</sup>
Solids Content, % by weight per Fed-Std-141, Meth. 4044	25 ± 2 %
Viscosity, per Fed-Std-141, Meth. 4287	65 ± 5 centipoise
VOC	667 grams/liter
Drying Time to Handle per Fed-Std-141, Meth. 4061	10 minutes
Recommended Coating Thickness	25 - 75 microns
Recommended Curing Conditions	24 hrs @ RT or 30 min @ 76°C
Time Required to Reach Optimum Properties	7 days
Recommended Stripper	HumiSeal® Stripper 1080
Shelf Life at Room Temperature, DOM	24 months
Thermal Shock, 50 cycles per MIL-I-46058C	-65°C to 125°C
Coefficient of Thermal Expansion - TMA	170 ppm/°C below T <sub>g</sub> 340 ppm/°C above T <sub>g</sub>
Glass Transition Temperature - DSC	14°C
Modulus - DMA	2000 MPa @ -40°C 1050 MPa @ 20°C 8.5 MPa @ 60°C
Dielectric Withstand Voltage, per MIL-I-46058C	>1500 volts
Dielectric Breakdown Voltage, per ASTM D149	7500 volts
Dielectric Constant, at 1MHz and 25°C per ASTM D150-98	2.5
Dissipation Factor, at 1MHz and 25°C per ASTM D150-98	0.01
Insulation Resistance, per MIL-I-46058C	8.0 x 10 <sup>14</sup> ohms (800TΩ)
Moisture Insulation Resistance, per MIL-I-46058C	6.0 x 10 <sup>10</sup> ohms (60GΩ)
Fungus Resistance, per ASTM G21	Passes

### Application of HumiSeal® 1R32PB65

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® 1R32PB65 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<sup>®</sup> 1R32PB65 should be stored away from excessive heat or cold, in tightly closed containers. HumiSeal<sup>®</sup> 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<sup>®</sup> Conformal Coatings should be carried out in accordance with local and National Health and Safety regulations.

The solvents in HumiSeal<sup>®</sup> 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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