

# HumiSeal<sup>®</sup> 2C51 Silicone, High Strength Gel Preliminary Technical Data Sheet

HumiSeal<sup>®</sup> 2C51 is a two component high strength, fast curing silicone encapsulating gel supplied as Parts A and B, suitable for general printed circuit board applications. HumiSeal<sup>®</sup> 2C51 is characterized by room temperature cure and low viscosity for ease of application and contains UV tracer for ease of inspection. The two components of HumiSeal 2C51 are blue and yellow and turn green when mixed. HumiSeal<sup>®</sup> 2C51 is RoHS Directive 2011/65/EC compliant.

### Properties of Mixed HumiSeal<sup>®</sup> 2C51

Density (part A&B), per ASTM D1475 Solids Content, % by weight per Fed-Std-141, Meth. 4044 Viscosity (Parrt A), per Fed-Std-141, Meth. 4287 Viscosity (Parrt B), per Fed-Std-141, Meth. 4287 VOC Drying Time to Handle per Fed-Std-141, Meth. 4061 Curing Condition to Reach Optimum Properties Recommended Stripper Gel Time at Room Temperature Shelf Life at Room Temperature, DOM Hardness, Shore 00 Volume resistivity per ASTM D257  $0.97 \pm 0.03 \text{ g/cm}^3$  99.0 %  $275 \pm 75 \text{ centipoise}$   $550 \pm 150 \text{ centipoise}$  0 grams/liter 10 minutes 30 minutes @ 70°C or 60 min @ RTHumiSeal<sup>®</sup> Stripper 1090 8-10 minutes 12 months 45-55 $5.2 \times 10^{13} \text{ Ohms.cm} (52 \text{ T}\Omega.\text{cm})$ 

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# Application of HumiSeal<sup>®</sup> 2C51

Cleanliness of the substrate is of extreme importance for the successful application of HumiSeal 2C51. 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.

Mixing ratio of Part A to Part B is 1:1 by volume (or weight). Prior to application, HumiSeal<sup>®</sup> 2C51 Parts A and B should be thoroughly mixed until a homogenous blend is achieved. Vigorous mixing is not recommended as entraps air pockets into mix.

#### Brushing

HumiSeal<sup>®</sup> 2C51 may be applied by brush after mixing of both parts. Uniformity of the film depends on component density and operator's technique.

#### Spraying

HumiSeal<sup>®</sup> 2C51 can be sprayed using conventional 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> 2C51 Parts A and B should be stored away from excessive heat or cold, in tightly closed containers. HumiSeal<sup>®</sup> 2C51 may be stored at temperatures not exceeding 38 °C (100 °F).

#### Caution

Application of HumiSeal<sup>®</sup> products should be carried out in accordance with local and National Health and Safety regulations.

Use only in well-ventilated areas to avoid inhalation of mist or spray. Avoid contact with skin and eyes.

Consult MSDS/SDS prior to use.

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