

## HumiSeal<sup>®</sup> 2E11 Epoxy Technical Data Sheet

HumiSeal<sup>®</sup> 2E11 is a room temperature curing two-part epoxy system designed for electronic sealing, encapsulating and potting applications. This product has been formulated with an easy 1:2 volume mix-ratio. HumiSeal 2E11 provides superior adhesion to a wide variety of substrates including most metals and plastics.

### APPLICATIONS

- Bonding
- Encapsulating
- Potting

### FEATURES

- Easy Mix Ratio
- Extended working time
- Room temperature cure
- Moisture Resistance

### SUBSTRATES

- Metals
- Plastics

### Properties of HumiSeal<sup>®</sup> 2E11 Liquids

Chemical Class	Epoxy
Viscosity Part A (25 °C, sp. 7 @ 20 rpm, cps)	11,000 -16,000
Viscosity Part B (25 °C, sp. 6 @ 20 rpm, cps)	5,000 -7,000
Specific Gravity at 25°C (Part A / Part B)	1.16 / 1.00
Color (Part A / Part B)	Clear / Amber
Mix Ratio, PBV (A:B)	1:2
Pot Life @ 25 °C	1 hour
Handling Time @ 25 °C	3 hours
Cure Time @ 25 °C	24-48 hours
Cure Type	2-part reactive epoxy
Curing Conditions	24 hours @ room temp.
Shelf Life, DOM, stored at 18 +/-10 °C	12 months
Cleanup Solvent	Isopropyl alcohol
Color (cured)	Amber
Typical Hardness, Shore D	40
Glass Transition Temperature (T <sub>g</sub> )	55 °C
Dielectric Strength, V/mil	500
Dissipation Factor at 1MHz	0.0026
Operating Temperature Range	-45 to 125 °C
Peak Intermittent Temperature	150 °C
Moisture Resistance	Excellent
Water Absorption (1-hour boil)	<1%
Elongation (typical)	90%
Linear Shrinkage (typical)	1%
CTE (ppm, -40 to 80 °C)	65

### Storage

HumiSeal<sup>®</sup> 2E11 Part A and 2E11 Part B should be stored in a cool, dry place between 8°C and 28°C in tightly closed containers. Keep from freezing.

### Caution

Application of HumiSeal<sup>®</sup> 2E11 should be carried out in accordance with local and national health and safety regulations. Use only in well-ventilated areas to avoid inhalation of vapor. Avoid contact with skin and eyes.

Consult SDS prior to use.

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