

# 20-3068

## Epoxy Adhesive and Potting Compound

### DESCRIPTION:

20-3068 is a room temperature curing, two component, epoxy potting compound and adhesive. This product provides good water resistance, adhesion, and toughness.

The 20-3068 Epoxy System meets the Food and Drug Administration (FDA) regulations permitting use in “indirect” food contact applications. The raw materials used in the products comply with the FDA regulations of Title 21 Code of Federal Regulations under Sections 175.105 and 175.300.

### FEATURES:

- Excellent adhesion
- Excellent chemical and corrosion resistance
- Excellent electrical insulation

### TYPICAL SPECIFICATIONS:

	<u>CAT.1</u>	<u>CAT.190</u>
Mixed Viscosity @ 25°C, cps	1,400	3,500 cps
Mix Ratio, By weight, Resin: Catalyst	100:50	100:15
Color	Clear/Amber	Clear/Yellowish
Specific Gravity, @ 25°C	.95	1.0
Pot Life, 100 grams, 25°C	2.0 Hours	40 Minutes
Hardness, Shore D	85	88
Tensile Strength, psi	6,850	10,600
Tensile Elongation, %	2.0	6.0
Flexural Strength, psi	11,410	17,000
Compressive Strength, psi	13,000	15,600
Tg	45°C	80°C
Coefficient of Thermal Expansion, °C	74.8 x 10 <sup>-6</sup>	62 x 10 <sup>-6</sup>
Dissipation factor		
60 Hz	.005	---
10 <sup>5</sup> Hz	.022	---
1 MHz	---	0.034
Dielectric Constant		
60 Hz	3.5	---
10 <sup>5</sup> Hz	3.2	---
1 MHz		3.47
Volume Resistivity, ohm-cm		
@ 25°C (77°F)	>10 <sup>16</sup>	>10 <sup>16</sup>
@ 60°C (140°F)	2.0 x 10 <sup>16</sup>	2.0 x 10 <sup>16</sup>
@100°C (212°F)	1.3 x 10 <sup>13</sup>	1.3 x 10 <sup>13</sup>
Cure schedule options:		
24 hours @ RT + 2 HRS @ 100°C		
3-5 hours @ 50°C		

**PREPARATION OF SURFACES:**

Surfaces must be clean and grease free. Adhesion can be substantially increased by abrading the surfaces to be bonded with emery cloth, sandpaper, carbide grinding tools, sand blasting, etc...A roughened, porous surface will produce the best results. Any oxidized metal films should be removed just prior to application of the epoxy adhesive mixture.

**INSTRUCTIONS FOR USE:**

1. By weight, thoroughly mix epoxy resin and curing agent according to mix ratio provided in the above table.

**FDA COMPLIANCE:**

Epoxies, Etc. does not warranty that these products would be suitable under applicable FDA regulations for any use.

The responsibility for determining the overall compliance with applicable FDA food additive/contact regulations is with the company manufacturing the final finished product and/or the person placing that product in food contact.

**SAFETY, STORAGE, AND HANDLING:**

Please refer to the Safety Data Sheet (SDS) for the most current safety and handling information.

The shelf life is 12 months in the original sealed container when stored between 50-77°F. Store away from excessive heat and humidity.

**IMPORTANT:**

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