

**EMERGENCY PHONE 1-800-255-3924**

## **TECHNICAL DATA SHEET MP 5405**

### **Description:**

**MP5405** is a two part unfilled epoxy adhesive designed for ceramics, and most plastics. It cures to a tough semi-rigid material, and is a free flowing viscosity. It gives good resistance to water, salt spray, inorganic acids and bases, and most organic solvents. It was especially formulated to a 1:1 mix ratio for use in either MMD equipment or side-by-side dual cartridges for easy dispensing.

Handling strength is normally achieved at room temperature within 3-5 minutes with full cure in 24 hours. An elevated temperature cure schedule can be used to reach final properties quickly.

### **Handling and Storage:**

- 1) Bring both components to room temperature prior to mixing. Mix 1 parts A to 1 part B thoroughly.
- 2) Allow to cure undisturbed until product is fully gelled or tack-free to the touch.
- 3) Clean up uncured resin with suitable organic solvent such as MEK, acetone or a chlorinated solvent.

### **Mix Ratio:**

1 to 1 by weight or 1 to 1 by volume.

**Shelf Life:** 2 years in an unopened container when stored in a dry area at between 50-75 degrees Fahrenheit.

### **Handling Characteristics:**

All properties given are at 25C unless otherwise noted.

<b>Color</b>		Clear
<b>Viscosity:</b>	<b>Part A</b>	12,000 cps
	<b>Part B</b>	13,000 cps
	<b>Mixed</b>	12,500 cps
<b>Specific Gravity:</b>	<b>Part A</b>	1.16
	<b>Part B</b>	1.15
	<b>Mixed</b>	1.16
<b>Pot Life</b>		3 - 5 minutes
<b>Mass</b>		20 grams
<b>Tensile Strength</b>		
<b>Lap Shear (Al to Al)</b>		2300 psi
<b>Tensile Elongation</b>		3 - 5% *
<b>Tensile Strength</b>		7000 psi *
<b>Temperature Range</b>		-40 to 130C
<b>Hardness</b>		80
<b>Method</b>		Shore -D
<b>Dielectric Constant</b>		4.5*(25C,100Hz)
<b>Dielectric Strength</b>		410 v/mil *
<b>Volume Resistivity</b>		8 x 10 <sup>14</sup> ohm-cm

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