

Revised  
Jan/2014



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## 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.

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

### Engineering Excellence

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