



# MCS-110EP

## TWO COMPONENT SILVER FILLED

### ELECTRICALLY CONDUCTIVE EPOXY ADHESIVE

The electrically conductive properties of the MCS-110EP epoxy adhesive makes it particularly suitable for component attachment and termination in membrane keypads and other electromechanical assemblies where application efficiency is important along with low resistivity.

MCS-110EP is ideally suited for dot dispense applications and high speed dot dispense processes.

Adhesion to most metal and plastic materials is excellent as its toughness and resistance to temperature with lateral component push off testing showing a 30-40% greater bond strength compared to other conductive compound products.

|   |   |
|---|---|
| Appearance<br>Consistency<br>Mix Ratio (by Weight)<br>Shelf Life<br>Pot Life<br>Volume Resistivity<br>Thermal Conductivity<br>Glass Transition Temperature<br>Tensile Sheer Strength<br>Solvent Resistance<br>Solderability<br>Specific Gravity | Silver Paste<br>1 - 1<br>12 months @ 25°C in unopened unmixed containers<br>>4 days<br>0.0001 - 0.0004 W cm<br>0.065 (W cm K )<br>65°C<br>1500 psi min<br>Excellent<br>No<br>2.6 (g/cc) |
|---|---|

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| Preparation<br><br>Printing<br>Dot Dispensing<br>Substrates<br>Solvent | Premix Parts A and B in original container prior to combining. Add Part B to Part A and mix until uniform<br>Dot Dispense<br>Positive Displacement, Pneumatic or Syringes for hand held equipment<br>Most Metal and Plastic<br>Yes, can be thinned |
|--|--|

| (Time at Temperature) | Complete Cure |
|-----------------------|---------------|
| 80°C                  | 90 Mins       |
| 100°C                 | 30-45 Mins    |
| 120°C                 | 15 Mins       |
| 150°C                 | 5 Mins        |

#### Safety & Handling:

The following precautions should be exercised when handling:  
 Avoid prolonged contact with skin. If contact with skin occurs, wash immediately with soap and water  
 Use with adequate ventilation, avoid prolonged breathing of vapour.  
 Dangerous if swallowed - DO NOT CONSUME

The performance characteristics are influenced and affected by printing technique, nature of substrate, curing time, curing temperature and type of drying equipment.

Before adopting our products for commercial use, the user assumes responsibility for determining fitness of use in their particular application and process. Memcon makes no warranties and assumes no liability in connection with any use of this information.

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