



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

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

MEMCON (Asia) Limited
 Level 7 Parkview Centre
 7 Lau Li Street Causeway Bay Hong Kong
 T +852 3741 1411 F +852 3747 8980
 www.memcon.asia sales@memcon.asia

MEMCON Limited
 Compass House Vision Park Chivers Way HISTON
 Cambridge CB24 9AD United Kingdom
 T +44 1223 257724 F +44 1223 257800
 www.memcon.eu sales@memcon.eu

MEMCON North America
 3786 Stadium Drive Bridgman
 Michigan 49106 USA
 T +1 269 466 5632 F +1 269 466 6034
 www.memcon.net sales@memcon.net