

# Conductive Silicone Paste

June 2012

*Conductive Silicone Paste*

## Part # MC10-0029-00

**DESCRIPTION** MAST Technologies' conductive silicone paste is a two part silicone paste which is loaded with electrically conductive particles. Conductive silicone paste can be used for loading EMI/EMC shielding, sealing apertures, and maintained conductive surface continuity. MAST Technologies' conductive silicone pastes can be used for prototyping and test or in production via an automated dispensing system.

**APPEARANCE** Two-part, dispensable, grey RTV silicone

**PART NUMBERING:** MC10-0029-XX  
 01: 1 Quart Size  
 03: 8 oz. SEM-KIT®  
 Other sizes available, please contact MAST Technologies.

**OPTIONS** MAST Conductive Silicone Paste comes with a standard volume resistivity of <100 mΩ-cm. Alternate hardness (Shore A) may be achieved by altering the filler loading level. High temperature silicones are also available for applications above 500° F. Contact at MAST engineer for more details.



Injection style Semikit® packages for multi-component adhesives and sealants

**PHYSICAL PROPERTIES** (values shown are under development and intended to be representative only)

Typical Properties	MC10-0029-XX
Elastomer	Silicone Paste Elastomer
Description	Two-part, castable liquid silicone RTV
Appearance	Grey
Product Forms	Caulk, Paste
Electrical Properties	<100 mΩ-cm
Hardness (Shore A)	75 (typical)
Operating Temperature Range	350°F
Mix Ratio	35:1 (base/curing agent)
Working Time at Room Temperature	2 hours
Recommended Cure Parameters	>48 hours at RT
	35 min at 212°F
	20 min at 257°F
	10 min at 302°F

**INSTRUCTIONS FOR USE**

**Mixing**

Thoroughly mix just prior to use. MAST Technologies' Silicone Conductive Paste is supplied in two parts as lot-matched base and curing agent that are mixed in a ratio of 35 parts base to one part curing agent, by weight. After thoroughly mixing base and curing agent, agitate gently to reduce the amount of air introduced. Allowing the mixture to set for 30 minutes before pouring may be adequate for removal of the air introduced during mixing. If air bubbles are still present, vacuum de-gas may be required.

**Vacuum Degassing**

If you purchase a SEM-KIT, the material will be degassed. However and if required, remove air entrapped during mixing by common vacuum degassing procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches Hg, to a container rated for use and of volume at least four times that of material being degassed. Hold vacuum until presence of air is no longer evident.

All information on this data sheet is based on laboratory testing and is not intended for design purposes. MAST Technologies makes no representations or warranties of any kind concerning this data. For part number quality assurance specifications, please contact a MAST Technologies technical representative.