



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS ECC-SCS002 CONDUCTIVE CAULK / SEALANT MATERIAL

Product overview

ECC-SCS002 is an electrically conductive composite material comprising of silicone elastomer and silver plated copper particles. It is designed to be easily applied to panel joints / seams and or the small clearances that result from non-continuous mechanical fixing in sheet metal enclosures. On application it cures at room temperature to form a highly conductive elastomeric section / joint that has good adhesion to most commonly used metals / substrates. When fully cured it will prevent water ingress and improve the EMI shielding performance of panel joints / overlaps.

ECC-SCS002 has excellent high temperature resistance and long-term ageing characteristics. The silver plated filler used in this material provides a reliable low impedance connection between suitably prepared metallic surfaces.

Uncured Properties

Colour	Tan
Form	Thixotropic paste
Cure time (approx 4mm section)	12 hours



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Cured Properties

Density	4.0 gcm ⁻³
Hardness	80 Shore A
Volume resistivity	<0.005Ω.cm
Adhesion	>100 Ncm ⁻²
Attenuation – 100MHz to 10GHz (MIL-STD 285)	N/D
Elongation	100%
Service temperature range	-55°C to 125°C

Packaging

ECC-SCS002 can be supplied in 30ml and 55ml dispense barrels, both of which incorporate luer lock fastenings at the nozzle that allow a wide range of dispense tips to be easily attached or detached. For larger scale applications it can be supplied in 2.5 fl.oz (70ml) or 6 fl.oz (170ml) Semco cartridges or standard 310ml sealant cartridges from which it can be directly applied using a suitable caulking gun.

Storage

It is recommended that when not in use that the material is stored in a cool dark, dry place. If the facility exists then some form of refrigerated or freezer storage is ideal. If kept properly sealed and in a suitable location then the material will remain usable for up to 6 weeks.



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Handling

When using this material observe usual standards of industrial hygiene/practice. Avoid skin/eye contact and work in a well ventilated area. For more detailed information please refer to the MSDS (Material Safety Data Sheet)