TECHNICAL DATA SHEET

SHIELDING SOLUTIONS LIMITED ECC-SAS001 CONDUCTIVE CAULK / SEALANT MATERIAL

Product overview

ECC-SAS001 is an electrically conductive composite material comprising of silicone elastomer and silver plated aluminium 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-SAS001 has excellent high temperature resistance and long-term ageing characteristics. The silver plated filler used in this material is provides a reliable low impedance connection between suitably prepared metallic surfaces. The silver aluminium conductive filler ensures good galvanic compatibility with aluminium alloys in wet or humid environments

Uncured Properties	
Colour	Light tan
Form	Thixotropic paste
Cure time (approx 4mm section)	12 hours

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Cured Properties	
Density	2.0 gcm ⁻³
Hardness	60 Shore A
Volume resistivity	<0.01Ω.cm
Adhesion	>100 Ncm ⁻²
Attenuation – 100MHz to 10GHz (MIL-STD 285)	80 – 115dB (typically)
Elongation	100%
Service temperature range	-55°C to 150°C

Packaging

ECC-SAS001 is normally supplied in 6 fl.oz (170ml) Semco 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 months.

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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)