Surrey
RFI/EMI SHIELDING

NewMet
new metals & chemicals

Code 807

CONDUCTIVE CAULKING COMPOUNDS (SILVER & NICKEL)

Section A

DESCRIPTION
SURSHIELD single part solvent based silicone paste volume conductive caulking compounds are highly loaded with electrically conductive particles and designed specifically for shielding enclosures, cabinets, structures, seams, cracks and conduit threads. They are manufactured in two formulations: 53-CCC-166 (Silver copper filled) and 53-CCC-168 (Nickel filled).

CHARACTERISTICS
The metallic loaded caulking compounds are readily applied after mixing and seam, joints, cracks, threads and other RFI/EMI leakage areas can be easily plugged. Once applied the caulking material assures the long term integrity of the shielding. Due to their high tack and non-hardening charactistics, caulking joints continue to function under vibration and temperature movement conditions. These compounds are designed to prevent corrosion in the caulking areas and result in attenuation of up to 100dB, dependent on filler utilised.

TYPICAL PROPERTIES

Conductive Filler	Specific Gravity	Volume Resistivity (Ohm cm)	Cure Time@ 20° C(Hours)	Shielding Effectiveness dB	Service Temperature (°C)	Shelf Life (Months)	Part Number
Silver-Copper	4.90	0.001	2	100	-55 - +200	6	53-CCC-166
Nickel	2.05	0.05	2	55	-55 - +200	6	53-CCC-168

APPLICATION
Prepare sufaces to be caulked by removing oxide, scale, rust and dirt by wire brushing or solvent cleaner, so that surfaces are bright and electrically conductive: apply to prepared surfaces by spatula, putty knife, caulking gun, brush or syringe. 53-CCC-166 can readily be diluted with about 10% of methyl ethyl ketone (MEK) to produce a brushable caulking compound. Acetone can be utilised as the clean-up solvent. (See heath and safety data sheet for detailed instructions.) The recommended storage temperature is 6ºC,in refrigerated conditions.

STANDARD KITS
53-CCC- 166 is supplied in cans of 400g for spatula applications
53-CCC- 168 is supplied in syringes of 225g

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