

### **C-SHIELD AG** **C-SHIELD AG-1** **RF Conductive Caulking Compound and Sealer**

C-SHIELD AG & C-SHIELD AG-1 are both a single-component, electrically conductive, non-hardening compound.

Both grades are effective over the entire microwave frequency range.

Due to the non-hardening characteristic, C-SHIELD AG & C-SHIELD AG-1 will perform under vibration and maintain conductivity between surfaces.

When properly applied, both C-SHIELD AG & C-SHIELD AG-1 will improve shielding effectiveness and provide a long-term integrity to the shielded enclosure, along with preventing corrosion in the contact areas.

#### **Applications**

C-SHIELD AG & C-SHIELD AG-1 are both designed for use on RF shielded structures, cabinets, seams, threads and other components where RF shielding is required.

Metal structures and equipment cabinets are made RF tight by applying C-SHIELD AG or C-SHIELD AG-1 to the seams.

C-SHIELD AG & C-SHIELD AG-1 can be used on removable gaskets, bolts and nuts prior to installation and also on vibrating parts since the material does not fully harden.

#### **TYPICAL PROPERTIES**

Volume Resistivity, AG (Ohm-cm)	0.001
Volume Resistivity, AG-1 (Ohm-cm)	0.006
Shielding Effectiveness (dB)	See graph
Uncured density, AG (g/cc)	3.5
Uncured density, AG-1 (g/cc)	3.6
Short term service Temperature °C (°F)	-70° to 288° (-94° to 550°)
Long term service Temperature °C (°F)	-70° to 190° (-94° to 374°)
Shelf life	6 months

#### **Availability**

C-SHIELD AG & C-SHIELD AG-1 are both sold by the pound and packaged in a 4 oz. glass jars.

C-SHIELD AG & C-SHIELD AG-1 can be supplied in different size SEMCO® cartridges.

Both grades ships as a hazardous material.

## Instructions for use

- If supplied in a glass jar, C-SHIELD AG & C-SHIELD AG-1 can be applied using conventional caulking equipment, both can also be applied by spatula, putty knife or plastic syringe applicators. Mix content before use
- All surfaces must be free of dirt, rust and any non-conductive substances, wire brushing and solvents are recommended for cleaning and preparing the surfaces.
- For best results C-SHIELD AG & C-SHIELD AG-1 should be applied at room temperature. Solvents can be used for cleaning and removing any excessive material.

