Eccoshield® VY

General Purpose RF Conductive Caulking Compound and Sealer

RF CONDUCTIVE CAULKING COMPOUND AND SEALER

Eccoshield VY is a single-component, electrically conductive, non-hardening compound of metallic particles. When properly applied, Eccoshield VY will exhibit a dramatic improvement in virtually any RFI situation. It assures long-term integrity of the shielding enclosure and will prevent corrosion in the contact area. It is effective over the entire useful radio and microwave frequency range for magnetic fields, electric fields, and plane waves. Due to high tack and non-hardening characteristics, it will function under vibration and displacement due to temperature changes. It is fast and economical to use.

FEATURES AND BENEFITS

- maintains good shielding effectiveness due to non-hardening characteristic of material
- material can be applied using conventional caulking equipment

MARKETS

- Commercial Telecom
- Test and Measurement
- Security and Defense

SPECIFICATIONS

TYPICAL PROPERTIES	ECCOSHIELD VY
Service Temperature °C (°F)	-40 to 288 (-40 to 550)
Volume Resistivity Ohm-cm	0.001
Density g/cc	4.9
Typical Insertion Loss at Caulked Joint (dB)	>100
Length of 3mm diam. bead/kg, m (ft)	33.5 (110)

Data for design engineer guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

APPLICATIONS

- Eccoshield VY is specifically designed for use on radio frequency shielded structures, cabinets, conduits, seams, threads, and other components to ensure containment or exclusion of RF energy.
- Sealing the seams of equipment cabinets by forcing Eccoshield VY into the seams. Vibration or handling will not affect the material since it remains in a plastic state
- Corrugated sheet metal buildings are made tight (RF and weather seal) by caulking with Eccoshield VY.
- Removable cover plates are readily gasketed by an application of Eccoshield VY prior to bolting. They can easily be removed from time to time since it does not harden.
- Conduit threaded joints are made RF tight by the application of a small amount of Eccoshield VY to the threads prior to tightening. The conduit fittings can be unthreaded easily.

AVAILABILITY

- Please contact your local supplier as there might be regional differences with regard to packaging.
- Eccoshield VY ships as a hazardous material (flammable).

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Europe: +49.(0)8031.2460.0
Asia: +86.755.2714.1166

www.lairdtech.com

INSTRUCTIONS FOR USE

- For best results, the material should be applied at room temperature (min 20°C (68°F)).
- Eccoshield VY can be used with conventional caulking equipment to develop fast and uniform-weight beads. It can also be applied by spatula, putty knife, plastic syringe applicators, or other suitable tools such as caulking guns. For spatula application, small amount of methyl ethyl ketone (MEK) can be added to adjust consistency.
- All surfaces for application should be prepared by removing rust, scale, non-conductive oxides and dirt. Wire brushing and/or solvent cleaning is usually adequate. Surfaces should be bright and electrically conductive.
- Apply Eccoshield VY to the prepared surface using a syringe, caulking gun, or spatula. Lap joints may be made immediately. Excess and spillage may be collected and reused.
- Hardened or thick material can be reactivated by the addition of small amounts of methyl ketone.
- For cleanup, acetone or trichloroethylene are suitable.
- Caution: Eccoshield VY contains flammable solvents. Keep away from heat and open flames. When not in use, keep sealed to avoid evaporation. The handling of these products should present no problems if ordinary care is exercised to avoid breathing vapors, the skin is protected against contamination, swallowing is avoided and eyes are protected.

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