

ECCOSHIELD[®] VY and VY-NN

GENERAL PURPOSE RF CONDUCTIVE CAULKING COMPOUND AND SEALER

Description :

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.

Eccoshield VY 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, Eccoshield VY will function under vibration and displacement due to temperature changes.

It is fast and economical to use.

Eccoshield VY-NN is a non-silver system specifically designed for use in marine or other corrosive environments where silver systems show physical and electrical breakdown.

Application :

Eccoshield VY and VY-NN are specifically designed for use on radio frequency shielded structures, cabinets, conduits, seams, threads, and other components to ensure containment or exclusion of RF energy.

It can also be used for sealing the seams of equipment cabinets by forcing Eccoshield VY(NN) 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(NN).

Removable cover plates are readily gasketed by an application of Eccoshield VY(NN) prior to bolting. They can easily be removed from time to time since Eccoshield VY(NN) does not harden.

Conduit threaded joints are made RF tight by the application of a small amount of Eccoshield VY(NN) to the threads prior to tightening. The conduit fittings can be unthreaded easily.

Physical Properties

	VY	VY-NN
Colour	Silver	Grey
Volume resistivity (Ohm.cm)	<0.001	
Typical Insertion Loss at caulking joints (dB)	>100	50-60
Specific Gravity	4.9	2.05
Length of 3mm bead per kg (m)	30	65
Service Temp (°C)	-40 to +280	-40 to +280

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Availability :

Eccoshield VY is available in 400g and 1kg containers.
 Eccoshield VY-NN is available in 450gr containers.
 Both products are hazardous flammable materials .

Instructions for use :

Eccoshield VY and VY-NN can be used with conventional caulking equipment to develop fast and uniform-weight beads. They 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(NN) 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.

Caution: Eccoshield VY(NN) 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 vapours, the skin is protected against contamination, swallowing is avoided, and eyes are protected.



Safety Considerations: It is recommended to consult the EMERSON & CUMING MICROWAVE PRODUCTS product literature, including material safety data sheets, prior to use EMERSON & CUMING MICROWAVE PRODUCTS products. These may be obtained from your local sales office.

WARRANTY: Values shown are based on testing of laboratory test specimens and represent data that falls within the normal range of properties of the material. These values are not intended for use in establishing maximum, minimum or ranges of values for specification purposes. Any determination of the suitability of the material or any use contemplated by the user and the manner of such use is the sole responsibility of the user who must assure that the material as subsequently processed meets the needs of this particular product or use. We hope the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale INCLUDING THOSE LIMITING WARRANTIES AND REMEDIES which apply to all goods supplied by us. We assume no responsibility for the use of these statements, recommendations or suggestions nor do we intend them as a recommendation for any use which would infringe any patent or copyright.

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