

ECCOSHIELD® VCA and VSM

ELECTRICALLY CONDUCTIVE SOLVENT BASED ADHESIVES

Description :

ECCOSHIELD VCA and VSM are highly electrically conductive pressure sensitive adhesives.

ECCOSHIELD VCA is a one-part pressure sensitive adhesive, whereas ECCOSHIELD VSM is a two-part adhesive designed for stronger and more permanent bonds.

ECCOSHIELD VCA & VSM have good conductive properties and will ensure a good electrical contact between the gasket and the metal.

ECCOSHIELD VCA may be used for permanent bonds where it is not stressed in tension or shear or in applications where temporary bonding is desired.

Due to the pressure sensitive properties of ECCOSHIELD VCA, the bonded pieces may be stripped apart by hand and simply pressed at a later time without loss of adhesion or conductivity.

The two part adhesive ECCOSHIELD VSM will be preferred for stronger and more permanent bonds.

Physical Properties

Colour	Silver
Volume resistivity (Ohm.cm)	<0.001
Tack Period VCA	30min to 24 hours
Cure time VSM	Overnight at RT or 2h at 90°C
Compatible Solvent	Ethyl Acetate

Availability :

ECCOSHIELD VCA is available in containers of 50g, 200g and 400g.

ECCOSHIELD VSM is available in containers of 100g and 400g. Both products are hazardous, flammable materials.

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Instructions for use :

All surfaces to be bonded with ECCOSHIELD VCA or VSM should be cleaned of all oil, grease and non conductive oxides. Solvent or abrasive type cleaners may be used for this step. Light abrasion is advantageous even after solvent cleaning.

ECCOSHIELD VCA may be applied with a brush or other suitable applicators.

It should be applied to both mating surfaces. If you need to reduce viscosity of ECCOSHIELD VCA, ethyl acetate may be used. Caution should be exercised as this material is flammable.

ECCOSHIELD VCA will dry quite rapidly under normal conditions. If the materials are non-porous, open time of 30 minutes should be allowed to avoid trapping solvent, and to develop sufficient tack. Heat may be used to speed the drying process. One half hour at 80 °C is generally adequate to remove all traces of solvent. The surfaces are then simply pressed together.

ECCOSHIELD VSM is a highly conductive two component epoxy adhesive. It is supplied as a Part A and a Part B. Part B contains solvent. Take 10 parts by weight of ECCOSHIELD VSM part A, and 2 parts by weight of ECCOSHIELD VSM part B and blend until homogeneous. Keep away from open flames. Pot life is about 2 hours.

ECCOSHIELD VSM is applied by brush to either gasket or metal. Bring surfaces together and maintain the contact. Cure overnight at room temperature or 2 hours at 90°C.



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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