

ECCOSHIELD® ES

CONDUCTIVE SURFACE COATING

Description :

ECCOSHIELD ES is a highly conductive surface coating that is a fine silver based lacquer and is sufficiently fluid enough to readily flow into cracks.

ECCOSHIELD ES will not fill gross voids at joints or seams; use a caulking compound such as ECCOSHIELD VY.

Metal to metal contact is improved significantly by applying ECCOSHIELD ES. The coating fills slight irregularities and makes such intimate contact with exposed metal that even corroded joints can be made acceptable RF seals.

ECCOSHIELD ES adheres well to metals, plastics, ceramics, wood and concrete. When applied to a non-conductor, surface resistivity is substantially less than 1 Ohm/square. Successive coats decrease surface resistivity even further.

Application :

ECCOSHIELD ES was specifically formulated for RF shielding applications and is often used to improve the RF integrity of metal housings or screen rooms.

By applying ECCOSHIELD ES to joints, seams and contacting surfaces, it is possible to convert a reasonably good metal structure to one of greater than 100 dB insertion loss from 15 kHz to 10 GHz.

Physical Properties :

	ES
Specific gravity	1.7
Volume resistivity (Ohm/Square)	<1
Coverage per kg, 80 micron thick layer	7m ²
Per kg seam coverage in tight contact	120m

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Availability :

ECCOSHIELD ES is available in 100g and 500g containers.
ECCOSHIELD ES is a hazardous material (Flammable).

Instructions for use :

ECCOSHIELD ES can be brushed or sprayed, with adequate ventilation recommended. When sprayed using standard spraying equipment, it can drive the silver particles into crevices and other hard to reach places. If a diluent is needed, use methyl ethyl ketone (MEK).

Remove grease, oil, wax and other debris from the surface to be coated with a suitable solvent or cleaning agent.

If electrical contact is to be established with a metal base, the metal surface must be free from non-conductive films.

Shake the contents of the container in which the ECCOSHIELD ES is received in until it is uniform in consistency, then pour out the desired amount.

The coating will normally air dry in one hour to a surface resistivity of less than 1 ohm/square.

Apply additional coats if needed.

The handling of this product should present no problems if ordinary care is exercised to avoid breathing vapours, the skin is protected against contamination, swallowing is avoided and the eyes are protected.

Do not use near an open flame as it is highly flammable. The flash point is 4 °C. Keep away from direct sunlight, ovens, radiators, hot water, and other heat sources; high temperatures may cause bursting of the container.



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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