

# ECCOSORB® CRS

## TWO PART CASTABLE SILICONE LOAD ABSORBER SERIES

### Description :

Eccosorb CRS is a series of castable, magnetically loaded, RTV silicone rubber materials. When fully cured, Eccosorb CRS will duplicate the electrical properties of the corresponding material in the Eccosorb MF series.

For example, Eccosorb CRS-117 is equivalent to Eccosorb MF-117.

### Application :

Eccosorb CRS can be used to cast cones, wedges and pyramids for termination loads. It can be used to fill cavities or can be painted on surfaces to suppress the flow of currents. This product line finds use in antennas and transmission lines. Microwave gaskets can also be poured directly in place where a sheet elastomer would not fit and has been poured around the bases of microwave tubes to prevent undesired energy flow.

### Physical Properties :

	CRS-117	CRS-124
Colour	grey	grey
Density (g/cm <sup>3</sup> )	4.16	4.55
Thermal Expansion Coefficient (°C)	63x 10 <sup>-6</sup>	59x 10 <sup>-6</sup>
Thermal conductivity (W/mK)	0.9	1.0
Dielectric Strength (kv/mm)	>100	>100
Volume resistivity (Ohm.cm)	>10 <sup>10</sup>	>10 <sup>10</sup>
Water absorption 24h (%)	<0.1	<0.1
Hardness ( Shore A )	75	75
Maximum service temperature (°C)	160	160



**ELECTRONIC  
SERVICE GmbH**

Hohe Straße 3 | 61231 Bad Nauheim  
T +49 (0)6032 9636-0 | F +49 (0)6032 9636-49  
info@electronic-service.de | www.electronic-service.de

**Emerson & Cuming Microwave Products N.V.**  
Bell Telephonenlaan 2B – B-2440 Geel – Belgium  
Tel: +32 14 56 25 00 – Fax +32 14 56 25 01  
sales@eu.eccosorb.com - www.eccosorb.eu



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### Availability :

Eccosorb CRS is available in two grades : Eccosorb CRS-117 and CRS-124.

Eccosorb CRS is supplied as a two part system consisting of a Part A (resin) and Part B (catalyst).

Available in 1kg and 2kg kits.

Shelf life is approximately one year when stored unmixed in a well sealed container at temperatures no higher than 25°C.

It can be shipped as a non-dangerous good.

### Instructions for use :

Mix the Eccosorb CRS Part A in the container in which it is received using a power stirrer to insure homogeneity.

Weigh out the desired amounts of Part A and Part B in the correct ratio given below.

Accurate weighing and blending are essential for proper and uniform cure.

Pot life is about 1h.

Mix ratio :

Eccosorb CRS-117 : 100 parts of A to 1.18 parts of B

Eccosorb CRS-124 : 100 parts of A to 1.00 parts of B

To insure void-free casting, the entrapped air should be removed by vacuum de-airing.

Pour into cavity to be filled. If adhesion is required a thin coat of suitable silicone primer should be applied.

Cure overnight at room temperature or 3 hours at 80°C.

Where a service temperature above 120°C is anticipated a post cure is recommended. Gradually raise cast parts to the desired temperature over a period of 8h or longer.



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**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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