



32 Mechanic Avenue Unit 211 • Woonsocket RI 02895
 Tel. 401-767-2269
 Fax 401-767-2255
 www.microsorbtech.com
 E-mail: engineer@microsorbtech.com

**Product
Bulletin**

800-02

**E-SHIELD WPCU
Copper EMI Shielding with PSA**

E-SHIELD WPCU is a copper foil for use as an emi/rfi shield against electrical interference. The foils are easy to work with and very effective across a wide range of frequencies, shielding against unwanted signals in or out of rooms and buildings, **E-SHIELD WPCU** may be used to form shielded enclosures of almost any size or shape, with primary use in construction with low-cost shielded rooms, shielded anechoic chambers and other shielded test rooms.

E-Shield products are unique as they come with Pressure Sensitive Adhesive (PSA) as the bonding mechanism, either standard PSA or with electrically conductive PSA, offers a no-mess, no odor simple method of application method for applying the E-SHIELD to substrates. E-SHIELD is also available without PSA backing.

TYPICAL PROPERTIES:

Property	Value	Test Method
Substrate, 1 oz rolled Copper Foil		
Foil Thickness	0.0014"	
Color	Bright Copper	
Tape Thickness, without liner	0.0035"	PSTC-33, ASTM D-3652
Adhesion to Steel	40 oz/inch	PSTC-1, ASTM D-3330
Tensile Strength	25 lbs/inch	PSTC-31, ASTM D-3759
Elongation	5 %	PSTC-31, ASTM D-3759
Operating Temperature	155°F (Class F)	
Flame Spread	Meets the Requirements of UL 510	

Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.



32 Mechanic Avenue Unit 211 • Woonsocket RI 02895

Tel. 401-767-2269

Fax 401-767-2255

www.microsorbtech.com

E-mail: engineer@microsorbtech.com

APPLICATION

E-SHIELD WPCU is applied like wallpaper, covering all surfaces: floor, walls and ceiling. Other than normal cleanliness, and dust free, no special preparation is required. The foil may be stapled, glued in-place or ordered with a **Pressure Sensitive Adhesive (PSA)** by a minimum of 3" overlap to avoid RF leakage. For maximum effectiveness, seams may be taped with electrically conductive adhesive tape or sealed with an electrically conductive Film. Adjoining sheets must be overlapped, caulk. **E-SHIELD WPCU** is also available with a conductive adhesive.

Do not solder or weld **E-SHIELD WPCU**.

SURFACE PREPARATION:

The surface to which the tape is applied to should be dry, clean and free of grease.

STORAGE TEMPERATURE:

Tape should be stored in a cool, dry area at temperatures of 60°F to 80°F.

AVAILABILITY

Standard roll width of **E-SHIELD WPCU** is 18" and 24" with lengths of 78 Ft. Other width and length sizes are available. Please contact your Representative with your requirements to receiving pricing and ordering information.

E-SHIELD WPCU Tape with electrically conductive PSA is available in 3" and 6" widths with length of 78 Ft.

Warranty: This information is, to the best of Microsorb Technologies knowledge, accurate as of the date indicated. This information relates only to the specific materials designated herein and is not intended for the application or use of the materials with any other materials or in any process. The information is intended as a general guide only and does not constitute a warranty or representation whatsoever and MICROSORB TECHNOLOGIES HEREBY DISCLAIMS ALL EXPRESS AND IMPLIED WARRANTIES ARISING FROM THE USER'S RELIANCE ON OR USE OF THIS INFORMATION.

Rev 2 041607