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**Product  
Bulletin**

**800-03**

**E-SHIELD WPS  
Stainless Steel EMI Shielding with PSA**

**E-SHIELD WPS** is a 0.0050" thick stainless steel 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 products are unique as they come with Pressure Sensitive Adhesive (PSA) as the bonding mechanism. 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 SHIELDING**

**PERFORMANCE**

**Insertion Loss per MIL STD 285**

<b>FREQUENCY</b>	<b>dB down</b>
200 KHz, Magnetic Field	- 40
200 KHz, Electrical Field	- 100
1 MHz, Electrical Field	- 100
10 MHz, Electrical Field	- 100
400 MHz, Plane Wave	- 80
10 GHz Plane Wave	- 80

**APPLICATION**

**E-SHIELD WPS** 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 or glued in-place or ordered with a **Pressure Sensitive Adhesive (PSA)**. **E-SHIELD** products should be overlapped by a minimum of 3" 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.

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

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**E-SHIELD WPS** will resist corrosion damage, even under severe conditions; however, galvanic coupling with anodic materials such as aluminum should be avoided. **E-SHIELD WPS** has moderate resistance toward corrosion. Special precautions are required in wiring and operating shielded rooms to ensure proper grounding and to avoid danger of electrical shock.

***E-SHIELD products are available with a vinyl pigment coating on the outer surface for architectural appeal. The vinyl coating is UV resistant and can be used in outdoor environments. All Pantene color is available. Contact your Representative for more details.***

## **AVAILABILITY**

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

**Thickness: 0.0030" (.0762mm) (3 mil)**

### **Standard Rolls:**

**24" x 150' (300 ft<sup>2</sup>) No PSA**

**23" x 150' (287 ft<sup>2</sup>) Area covered by PSA**

**Weight: 21 lbs per roll**

**48" x 150' (600 ft<sup>2</sup>) No PSA**

**46" x 150' (575 ft<sup>2</sup>) Area covered by PSA**

**Weight: 42 lbs per roll**

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