



NEXT-GENERATION PERMANENT  
ELECTROSTATIC PROTECTION

>> ESD Paints  
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Technical Data Sheet  
**ProShield ESD 1EF1**  
For EVA Foam



Powered by  
Novel Polymer Technology 

ProShield ESD 1EF1 is a solvent-based paint specifically developed for EVA foam. This innovative formulation ensures that the paint maintains the same flexibility and stretching properties as the EVA foam substrate, without compromising the paint's anti-static, ESD, or conductive properties. Its homogeneous nature guarantees uniform performance across the entire surface, ensuring consistent results every time.

What sets this paint apart is its permanence: once applied, it retains its anti-static, ESD or conductive properties indefinitely, as long as the paint is visible. This reliability and durability make ProShield ESD 1EF1 a superior choice for demanding applications. Additionally, it is RoHS compliant, low VOC, and free from harmful solvents like toluene, xylene, and MEK, ensuring safety and environmental compatibility.

#### Specifications

Viscosity (ISO 2431:2015 )	: 14 ± 2 (B4 Cup, sec), 23 ± 2 (Zahn2, sec)
Density (ISO 2811)	: 0.97 ± 0.04 g/cm <sup>3</sup>
Fineness of Grind (ISO 1524 )	: 25 ± 5 microns
Surface Resistivity (ASTM D257)	: 10 <sup>4</sup> to 10 <sup>9</sup> ohm/sq
Solid Content	: 85 ± 1 %
Coverage	: Approx. 15-17 Sq. meters per Kg @ 50 µm
Color	: Black

#### Curing Time:

Tack-Free	: 30 minutes minimum
Dry Time	: 8 Hours minimum
Full Cure	: 3 Days minimum



## Application Instructions for ProShield ESD 1EF1 for EVA Foam

### Surface Preparation:

1. **Dust Removal:** If the surface is dusty, clean it thoroughly using a vacuum cleaner or compressed air.
2. **Contamination Removal:** For surfaces with significant contamination, clean with clean water and allow the surface to dry completely.
3. **Dry Surface:** Ensure the surface is entirely dry before application to achieve optimal adhesion and performance.

### Application Method:

1. **Stir Product:** Stir the paint well before use to ensure uniformity.
2. **Viscosity Adjustment:** If necessary, adjust the viscosity using **Thinner 1ET1** according to the product specifications.
3. **Application Techniques:** Apply the paint using any of the following methods:
  1. **Brush:** Ideal for smaller areas or touch-ups.
  2. **Roller:** Recommended for medium-sized surfaces.
  3. **Spray:** Preferred for larger areas or intricate designs to ensure even coverage.
  4. **Dip:** For complex and high-volume requirements.

### Additional Notes:

- **Environmental Conditions:** Apply in a well-ventilated area, ideally between 10°C and 30°C, and away from excessive humidity.
- **Equipment Maintenance:** Clean all application tools immediately after use with an appropriate solvent to prevent clogging or damage.



Anti-Static (AS) : Resistivity  $10^8 - 10^9 \Omega/\text{sq}$

Part Code	Net Weight
• 1EF1/AS/1	1 kg
• 1EF1/AS/5	5 kg
• 1EF1/AS/20	20 kg

ElectroStatic Discharge (ESD) : Resistivity  $10^6 - 10^7 \Omega/\text{sq}$

Part Code	Net Weight
• 1EF1/ESD/1	1 kg
• 1EF1/ESD/5	5 kg
• 1EF1/ESD/20	20 kg

Conductive (CD): Resistivity  $10^3 - 10^5 \Omega/\text{sq}$

Part Code	Net Weight
• 1EF1/CD/1	1 kg
• 1EF1/CD/5	5 kg
• 1EF1/CD/20	20 kg

Supporting Materials

Product	Part Code	Net Weight
• Thinner	1ET1/1	1 kg
• Thinner	1ET1/5	5 kg
• Thinner	1ET1/20	20 kg

**Storage:**

Store **ProShield ESD 1EF1** in a cool, dry place, away from excessive heat and cold, in tightly closed containers. Ideal storage temperature is between **0°C and 30°C**.

**Caution:**

Apply **ProShield ESD 1EF1** following local health and safety regulations. Use **standard PPE** like gloves, eye protection, and respiratory masks. Ensure proper ventilation during application.

Refer SDS prior to use.

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