

## BR® 127 NC ESD BLACK

BR® 127 NC ESD BLACK Primer is a modified epoxy phenolic primer which contains conductive carbon black for enhanced electrical conductivity. The primer contains no chromates or metallic fillers. It may be easily sprayed or roller coated.

### Features and Benefits

- Excellent corrosion resistance
- No Chromates
- Compatible with a wide variety of adhesive systems
- Service temperature from -67°F to 300°F (-55°C to 149°C)
- Protective coating
- Enhanced electrical conductivity

## CHARACTERISTICS

**Table 1 | Product Availability**

Solids	10% ± 1%
Color	Black
Package Sizes	1 quart (0.95 L) 1 gallon (3.79 L) 5 gallons (18.9 L)

**Table 2 | Physical Properties**

Shelf Life	12 months at or below 0°F (-18°C)
Shop Life	10 days at 75°F (23°C) 5 days at 90°F (32°C)
Density	7.3 lb/gal (0.79 g/cc)
Surface Resistivity Total Normal Emittance:	10 <sup>6</sup> ohms/square >0.85 at 80°F (27°C)

## PROCESSING

### Mixing

Allow the container to warm to room temperature, 75°F (24°C), before opening. Thoroughly mix BR® 127 NC ESD BLACK upon opening, primer should be agitated lightly during application.

### Surface Preparation

A clean, dry, grease-free surface is required for bonding. BR® 127 NC ESD BLACK is used with standard cleaning techniques involving a four step procedure of solvent degreasing, alkaline cleaning, chemical deoxidizing (etching), and phosphoric acid anodizing. General guidance for etching and phosphoric acid anodizing can be found in ASTM D 2651 and ASTM D 3933, respectively.

### Equipment

BR® 127 NC ESD BLACK may be sprayed using a variety of equipment including hand-held, automated, or conventional air-atomizing HVLP spray equipment. Parts may be racked for spray and cured in any position convenient for the process.



**Primer Thickness**

Spray a dry primer thickness of 0.0004 – 0.0010 in. (0.010 mm to 0.025 mm) for optimum properties.

**Dry Time**

Air dry 30 minutes at ambient (75°F (24°C)) and less than 55% relative humidity prior to oven curing.

**Primer Cure Cycle**

Allow the primed surface to dry at room temperature per instructions above before curing at elevated temperature. Care should be taken to not touch or scratch the primed surface while transferring it to an oven. Dry primer coatings are to be cured at 250°F ± 10°F (120°C ± 6°C) for 30 minutes to obtain a surface which is scratch and MEK resistant.

**HEALTH & SAFETY**

Please refer to the product SDS for safe handling, personal protective equipment recommendations and disposal considerations.

