

# BPCOAT CC Series

CAREFULLY SELECTED PARTICLES



**Conductive Coatings**

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Conductive Coatings

Electrostatic discharge(esd) is the transfer of an electrostatic charge between two objects with different numbers of electrons. This Exchange of electrons creates a large electromagnetic field build up. It can be very damaging to electronic devices which are sensitive to electrostatic discharge.

Grounding is essential for blocking ESD. Everything in a work area should be connected to a grounding system.

Materials which are conductive like steel surfaces can not be used as a static-safe surface. Because a sudden and rapid discharge is much more damaging to the electronic devices. Static dissipative materials are used for discharging static charge to ground slowly.



**We have removed  
the limits in  
conductive/ESD  
electrostatic  
powder coating!**

***In all colors,  
on every  
surface!***

# ESD

( $1 \times 10^6$ -  $1 \times 10^9 \Omega / \text{sq}$ ) materials are generally subdivided into categories with related properties: Anti-Static, Conductive, and Dissipative.

## Conductive

Conductive ( $1 \times 10^4$ -  $1 \times 10^6 \Omega / \text{sq}$ ) materials have a low electrical resistance, thus electrons flow easily across the surface or through these materials. Charges go to ground or to another conductive object that the material contacts.



## Anti-Static

Anti-static materials are generally referred to as any material which inhibits triboelectric charging. This kind of charging is the buildup of an electric charge by the rubbing or contact with another material.

## Insulative

Insulative materials prevent or limit the flow of electrons across their surface or through their volume. Insulative materials have a high electrical resistance and are difficult to ground, thus are not ESD materials. Static charges remain in place on these materials for a very long time.

## Application Area

- Bumpers, bins, trays, and tools
- Workstation surfaces
- Carts
- Computer workstations. Monitors, keyboards, CPU holders
- Task chairs
- Clipboards
- Laboratory Instruments
- Electronic enclosures and cabinets
- Work benches shelving.



## Features

- Electrostatic dissipative range ( $10^4$  to  $10^9 \Omega / sq$ )
- Can be applied with electrostatic powder spray gun
- No Limited range of colors
- Curing teperatures options as low  $130 \text{ }^\circ\text{C}$  –  $160 \text{ }^\circ\text{C}$ -  $200 \text{ }^\circ\text{C}$





Test Done	Methods	Value
Surface Appearance	-	All Surfaces
Color	-	All Colors
Gloss	EN ISO 2813 60°	5-95
Surface Resistivity	$\Omega$ – ohm 100V	$10^4 - 10^9$
Theoretical Coverage(50 microns)	m <sup>2</sup> /kg	12-13
Recommended Film Thickness	Microns	50-70
Type of Powder	-	All Series



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