

ELECTRICAL CONDUCTIVE POWDER COATINGS

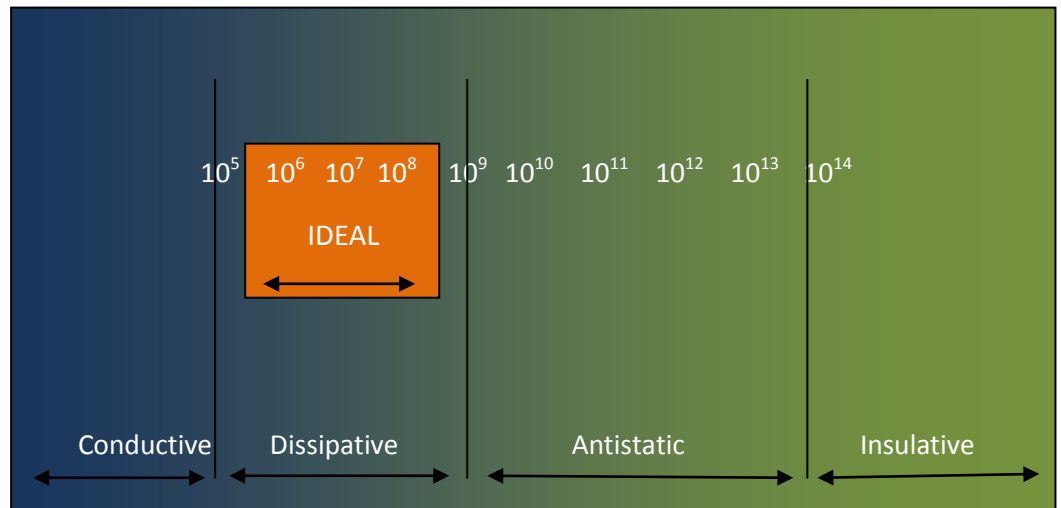
Rapid CONDUCTCOAT is a special epoxy resin based powder that provides excellent electrical Conductive properties along with thermal stability, moisture and corrosion resistance. The coating exhibits excellent adhesion to both copper and aluminium resulting in superior mechanical properties. The particle size distribution of Rapid CONDUCTCOAT is designed to meet the requirements of application by electrostatic spraying coating.

Application:

Copper, Aluminium, Mild Steel, Cast Aluminium & Cast Iron.

Benefits:

- Electrostatic spray grade powder utilising commonly used powder coating equipment and infrastructure.
- Excellent conductive properties.
- Coating cannot be easily removed or damaged.
- Coating is highly resistant to water and chemicals.
- Coating withstands glitches and spikes in the electrical system.
- Coating does not damage, deform or sag even after multiple peak and off-peak cycles.



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We also offer coating powders which are
Non-Hazardous, TGIC-Free, ROHS & REACH Compliant

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Introduction:

In accordance with Standard IEC 61340-5-1 the electrical surface resistance at ESD-Workstations range must be max. 10^9 Ohm. Our specialist products in this area of application have an electrical resistance of $7.5 \times 10^5 - 10 \times 10^9$ m-Ohms at a film thickness of 70-100micron.

Powder Properties

	Standard
Specific Gravity	1.6±0.1
Particle Size Distribution (Alpine Sieve)	
% below 32 microns	30-40
% below 63 microns	80-90
% below 100 microns	90-95
% below 120 microns	95-100
Storage Stability	4 Months@ <30°C

Application of Powder

Pre-treatment	The surface area of component must be clean and free from grease, rust and other contamination.
Powder application	By electrostatic spray gun.
Baking Schedule (°C/Minute, E.M.T.)	180°C/10
Coating Thickness	80-100 micron

Test Condition

Measurement of the surface resistance

Measured Area:	Not Conductive work surface.
Substrate:	Mild Steel
Probes Distance:	10 cm
Voltage:	220 V
Condition:	23°C at 25% relative humidity.

Measurement of resistance against earth leakage

Measured Area:	Not Conductive work surface.
Substrate:	Mild Steel
Probes Distance:	30cm
Probes Position	One probe on coating & another on uncoated part.
Voltage:	220 V
Condition:	23°C at 25% relative humidity.

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