

ENVIROCOAT POWDERS PVT. LTD.

HO : Plot No. 288, Sector 7, MIDC, Bhosari, Pune - 411026

WORKS : C-99, STICE, Musalgaon, Sinner, Nashik - 422112

CIN No. : U74994PN2018PTC175918

🌐 : www.envirocoats.net 📧 : sales@envirocoats.net ☎ : +91 9970174035



TECHNICAL DATA SHEET

PRODUCT NAME: ESD POWDER COATING

Introduction

Electrostatic dissipative powder coatings are a specialized type of coating that provides protection against electrostatic discharge (ESD) by dissipating static. They are commonly used in coating applications that deal with electronic appliances such as computers, electrical cabinets, and housings.

Problems caused by electrostatic discharge are usually found in the electronics industry, where products can suffer damage if they are subjected to an electrostatic charge. As few as 100 volts are enough to damage an electronic component, so utilizing electro-dissipative powder coatings can help add a protective film. Generally used for interior products, applications include electronic enclosures, cabinets, computer workstations, server casings, shelving, robot components, and more. With so much reliance on the electrical items themselves, ensuring the safe, continued, and dependable performance of electronic equipment is essential.

KEY BENEFITS

An electrostatic dissipative surface
Good corrosion resistance
Good chemical resistance
Excellent adhesion
Non-toxic

Powder Properties

Sr. No.	Properties	Specification
01	Shade	As Per Std.
02	Appearance	Free flowing Powder
03	Specific Gravity ASTM-D-153	1.50 to 1.80
04	Storage	Dry cool condition (below 30 deg.C.)
05	Shelf life	6 months (<30°C)
6	Substrate	0.8 mm CRCA Phosphated
7	Method of Application	Electrostatic Spray 60 – 90 KV
8	Baking Schedule EMT	180 Deg Cent. / 15 min metal temp.
9	Impact Test Kgcmm ASTM 2794-69 Direct/ Indirect	60 minimum
10	DFT	50-70 Micron
11	Flexibility @ 6.25 mm ASTM-D-522	No cracks on film
12	Adhesion Test ASTM-D-3359	GT - 0
13	Surface Resistivity (ASTM D257)	10^4 - 10^9 Ohms/Square
14	Salt Spray Resistant ASTM-B-117	To pass 250 Hrs.

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Restriction of Hazardous Substances (RoHS/RoHS2)

This product range conforms to the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS and RoHS2) Directive. It does not contain any compounds of lead, mercury, cadmium or hexavalent chromium; nor does it contain polybrominated biphenyls (PBBs) or polybrominated diphenyl ether (PBDE).

Health & Safety

This product is intended for use only by professional applicators in industrial environments. Consult the relevant health and safety data sheet.

ESD powder coatings offer excellent functionality for a vast array of applications. No special equipment is required for this powder to provide such a high mechanical performance. This powder comes in an array of colors and finishes, as well as gloss ranges from 5 to 90.

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