

## IBAGROUND

# Technical Data Sheet

### Description

**IBAGROUND** adds conductivity feature to the surfaces onto which it is applied, while the conventional powder coatings are known to act as insulating barriers.

Depending on the aimed conductivity level, **IBAGROUND** has "Conductive (C)" and "Antistatic/ESD (S)" versions.

**IBAGROUND Conductive (C)** powders transforms insulative materials such as glass, SMC and MDF into conductive.

Conductive coatings are frequently used to shield sensitive electronic components from electromagnetic and radio frequency interference (EMI/RFI) from both the device itself and from surrounding interference. Electromagnetic shielding is the practice of reducing the electromagnetic field in a space by blocking the field with barriers made of conductive or magnetic materials. Shielding is typically applied to enclosures to isolate electrical devices from their surroundings, and to cables to isolate wires from the environment through

**IBAGROUND Antistatic/ESD (S)** powders are developed in order to prevent the failure of electronic components due to electrostatic discharge. The coating acts as a protective film that will dissipate static charge occurring onto the surface, in doing so valuable electronic components are kept safe in use or in storage.

**IBAGROUND** can be formulated in a wide range of binder chemistries like polyester, epoxy, hybrid and polyurethane with a limited color range and surface characteristics though.

### Characteristics

**IBAGROUND Conductive (C)** powders electrical surface resistivity  $< 0.75 \cdot 10^6$  Ohms/sq at 100 volts.

**IBAGROUND Antistatic/ESD (S)** powders electrical surface resistivity  $0.75 \cdot 10^6 - 999 \cdot 10^6$  Ohms/sq at 100 volts.

Excellent physical properties and film integrity.

### Applications

**IBAGROUND Conductive (C)** is for

EMI/RFI Shielding of housings and components;  
Communications equipment, antennas and pagers  
Consumer electronics, cable boxes, receivers and entertainment systems  
Industrial and automated control systems; military and weapons systems  
Network/satellite systems; and aerospace/avionics systems.

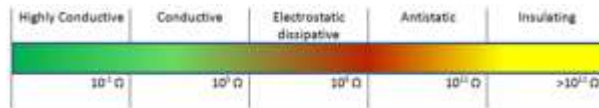
**IBAGROUND Antistatic/ESD (S)** is for

Electronic enclosures  
Computer work stations  
Work benches and work surfaces  
Shelving  
Storage organizers  
Ideal to coat components which have to comply with the ATEX regulations

# IBAGROUND

## Product Properties

<b>UV Resistance</b>	Depending on the series.
<b>Colour</b>	Black-Grey-Red-Blue-Green-Brown-Yellow
<b>Surface</b>	Semigloss HR - Wrinkle WR- Structure
<b>Specific gravity</b>	1.40-1.75 gr/cm <sup>3</sup>
<b>Electrical Surface resistivity</b>	Conductive (C) < 0.75*10 <sup>6</sup> Ohms/sq at 100 volts. Antistatic/ESD(S) 0.75*10 <sup>6</sup> -999*10 <sup>6</sup> Ohms/sq at 100 volts.



<b>Shelf Life</b>	12 months (< 30°C and < 50% RH) (depending on the series)
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## Application Data

<b>Application</b>	Corona/Tribo (Can be applied by tribo guns if product code has "T" for the 6th character)
<b>Curing</b>	Check for TDS for the specific series.
<b>Film Thickness</b>	40-100 microns.

## Coating Properties

Check TDS for the specific series.

## Application Guide

IBAGROUND powder coating does not require a special application. Check TDS for the specific series.

## Care and Maintenance

IBAGROUND powder coatings should be regularly washed with warm water and mild liquid detergent, followed by a fresh water rinse to maintain the attractive appearance of the powder cured film.

The use of abrasive cleaners is not recommended, nor is the use of active organic solvents.

## Health and Safety

The SDS is an integral part of using this product as it contains information on the potential health effect of exposure, personal protective equipment needed. It is recommended to contact to Sales and Customer Service Offices for further information.

## Transport and Storage

<b>Packaging</b>	15-20-25 kgs. Heavy polyethylene bag in a corrugated carton
<b>Shipment</b>	Not dangerous goods. No special transport requirements.
<b>Storage Conditions</b>	Storage temperatures should be kept below 30°C and 50% relative humidity. Powder should be stored in closed containers.

*DISCLAIMER: All the information given in this Data Sheet is the result of our research work experience. It is given in good faith and with every belief in its accuracy but cannot be considered as a formal warranty. In accordance with İBA KİMYA, policy of product development, this specification is subject to change without notice.*