Conductive Compounds for ESD (ElectroStatic Discharge) Protection

ESDite - M

What is ESD?

ESD stands for ElectroStatic Discharge. It is the spark you feel when your finger comes close to a door knob after you're walked across a carpet on a dry day. Similar but unfelt ESD events occur at every touch. Below 3,000 volts of static discharge a human will feel nothing, but a for the final curtain to fall on its expected performance

Electrostatic discharge is considered as a serious industrial problem that causes explosion of powder and chemical factory, inferior products of electronic systems and semiconductor factory, malfunction on micro machines of hospital and communication systems, etc., ESDite is hughly endurable inorganic electrostatic dissipative system, developed to dissipate electrostatic charge effectively so that architectures can dissipate electrostatic charge semi-permanently to protect human body and industrial facilities.

Features

- Stable electric conductivity

- It suffices strict military requirment by the surface resistance of 2.5 X 10^4 ~ 1.0 X $10^6\Omega$ (ESD-S.7.1, ASTM F 150).
- Stable and excellent in electrostatic dissipation.

- High Strength and high durability

- Strong against abrasion, and no crack on impact.
- Semi-permanent product requiring no maintenance.

- Cramic binder system

- Nonflammable and nontoxic

Usage

- Plants or storage which deal with explosive/volitile matters.(Explosive plants, chemical plants, LNG/LPG storages, military facilities etc.
- Facilities that need the prevention of machinery failure due to the electrostatic discharge.
- Intelligent buildings, hospital, operation room.

Composition

- Main component : Hydraulic inorganic powder
- Appearance : Pre-mix compound
- Color : Green, Red, Yellow, Gray
- Packing : 25kg bag

Properties

Items		data	test method
electrical resistance	Surface-surface	2.5 X 10^4 ~ 1.0 X $10^5\Omega$	ESD-S.7.1(100V)
	Surface-earth	2.5 X 10^4 ~ 1.0 X $10^5\Omega$	
	Surface-surface	2.5 X 10^4 ~ 1.0 X $10^6\Omega$	ASTM F 150(500V)
	Surface-earth	2.5 X 10^4 ~ 1.0 X $10^6\Omega$	
Compressive strength (7 days)		Min. 300kgf/㎠	JIS R 5201
Flexural strength (7 days)		Min. 40kgf/㎠	JIS R 5201
Abrasion resistance		Max. 0.1 mg/㎟	KS F 2813
Mechanical shock resistance		Non crack & spoil	KS F 2221
Fire resistance		Non flammable	-
Chemical resistance		Min. 90% (good)	KS L 5105

Installing method

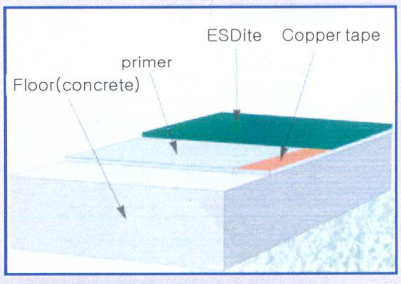
Spray primer

Attach copper tape for earthing

Mix ESDite with water

Cover floor with mixture

finish



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