



Our Recent ESD Flooring work in Chennai

**EXPLORE WHAT'S INSIDE THIS ISSUE:**

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**LAUNCHING OF INDIA'S FIRST MULTISURFACE ESD PROTECTIVE COATING FOR ELECTROSTATIC PROTECTIVE AREA (EPA)**

*Written by Mr.B.M.Nagarajan (Director)*

Dear Readers,

The world has changed drastically in the past several months as COVID-19 spreads around the globe. Governments, businesses, and the international community are grappling in real time with how to respond. Mobile phones, Laptops and Medical devices generate enormous amounts of data every day and can be an incredibly important resource in developing a humanitarian response. When these important electronic devices are manufactured by big electronics manufacturing and assembling companies, they have to work with infrastructure development team for a fool-proof Electrostatic Protection Area (EPA) but the cost of protective coating and turn-around time for application is becoming a challenge.

For first time in India, Neocrete Technologies Pvt Ltd had launched a wide range of ESD products for various application to help us deal with the static electricity in various surfaces. Neocrete Technologies Pvt Ltd has created two groups of ESD products [Solvent – Borne & Water – Borne] for surface protection of various EPA furniture's, equipments, floors, walls and other surfaces. To highlight key issues that engineers and assembly intermediaries should consider using of manufacturing and assembly of sensitive electronic components in EPA as part of the worldwide standards. This strategy builds on decades of experience to foster a deliberate and holistic commitment to improve development of innovative products for the worlds need.



Neoflor ESDC Tested by BOSCH

# INTRODUCTION TO NEOCRETE'S NOVEL ESD FLOORING PRODUCT RANGE

*Written by Mr. Balaji Ravikumar (Regional Manager - South)*

## WHAT IS ESD FLOORING?

As a person walks across a standard epoxy floor, it is very easy to build up static charge through friction because epoxy acts as an insulative material. Where there is static, there is electro-static discharge. This can cause huge catastrophe in certain industries. ESD floors, also known as static dissipative floors (1 Mohm to 1000 Mohms) or conductive floors (.025 Mohms to 1 Mohms), provide superior static control, inhibiting static electricity on a person or from reaching sensitive equipment.

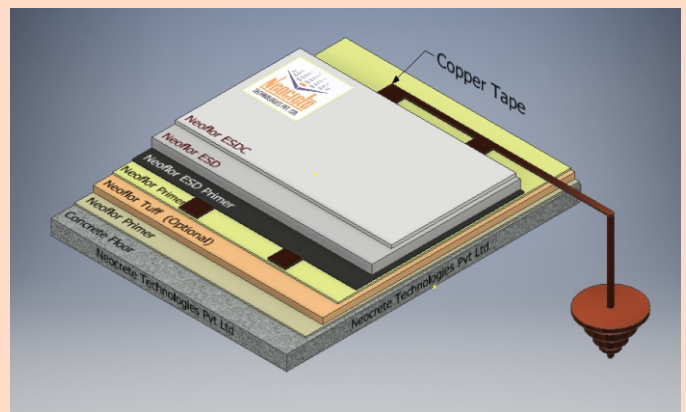
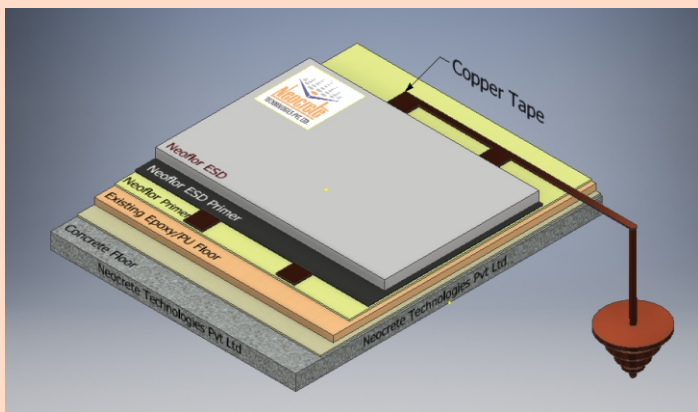
## BENEFITS OF NEOFLOR ESD FLOORING:

Our ESD floors are made using the state of the art dispersion technology to make our floors volume conductive rather than surface conductive compared to traditional technologies. We had attained this unique properties using single wall carbon nanotubes (SWCNT) in all our ESD / Conductive flooring and coating products to get uniform surface to surface and surface to ground resistivity . The Cast In-Situ polymer ESD floors perform more effectively and thoroughly than other types of anti-static flooring, such as carbonfiber based epoxy flooring, ESD mats or ESD tile. Conductive elements within a cast in-situ polymer flooring system help bridge the pathway from the surface of the floor to the system's grounding layer.

## BENEFIT HIGHLIGHTS INCLUDE:

Protecting personnel from injury or loss of life due to shock or explosion. ESD floors are often used to protect those working in cleanrooms. Protecting sensitive electronic components from damaging static electricity, often in computer and electronics manufacturing Better performance than tile which can delaminate under heavy-duty conditions Saving money on replacing or repairing electronic equipment that has failed or been damaged due to static electricity Creating a 100% effective static-controlled environment. Complies with worldwide ESD standards.

## ESD FLOORING SCHEMATICS



### **Product Description:**

Product Name: Neoflor ESD

Thickness: 2mm to 3mm

System: 3-Component

Type: Typical ESD Flooring

Product Range: 1.) Static Conductive  
2.) Static Dissipative

Product Detail: It is a seamless, monolithic epoxy flooring system which provides a static-conductive/dissipative surface.

Colour Option: Limited colours available.

Compliance: Meets ESD standards (ASTM F150, ANSI/ESD S 2020, IEC 61340-5-1)

### **Product Description:**

Product Name: Neoflor ESDC

Thickness: 0.25mm to 1mm

System: 2-Component

Type: ESD Restoration Coating

Product Range: 1.) Static Conductive  
2.) Static Dissipative

Product Detail: The system is specially formulated to provide ESD properties to a worn-out or damaged ESD floors.

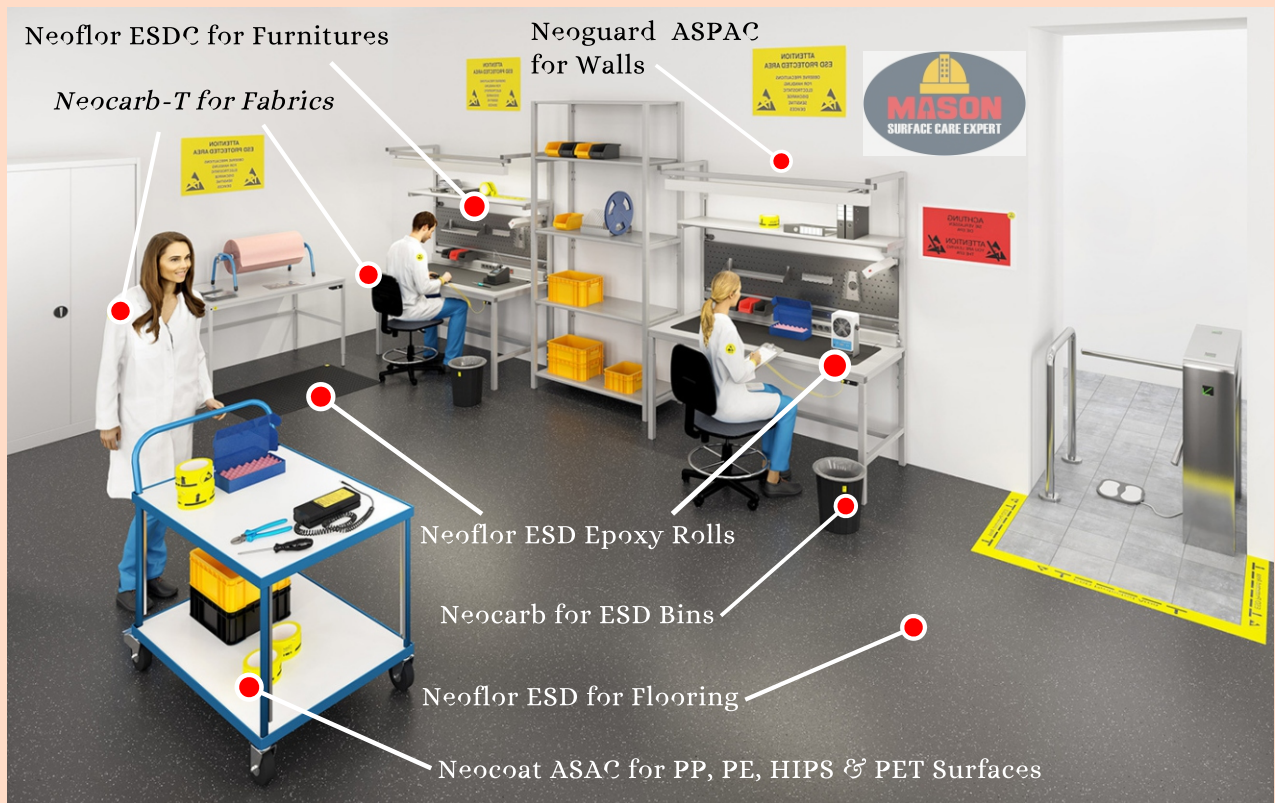
Colour Option: Limited colours available.

Compliance: Meets ESD standards (ASTM F150, ANSI/ESD S 2020, IEC 61340-5-1)

## ADVANCED MULTI SURFACE ESD COATING PRODUCTS FROM MASON'S SURFACE CARE EXPERT

*Written by Mr. Balaji Ravikumar (Regional Manager - South)*

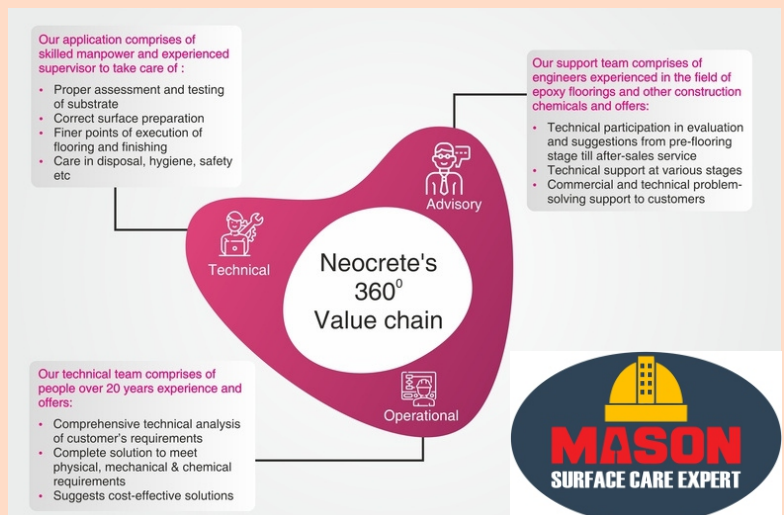
We believe that a country's successful journey to self-reliance depends in large part on their successful use of technology and responsible use of innovative products. In electronic manufacturing and assembly industry a fool-proof ESD coating should meet ESD standards (ASTM F150, ANSI/ESD S 2020, IEC 61340-5-1). In execution of ESD Coating over surfaces in Electrostatic Protection Area (EPA) the coating and turn-around time for application will be a challenge if you don't know how to protect the surface with the right ESD coating product. So, We will be discussing various application area of our new range of ESD Coating products. Leading iNARTE certified professional's are strongly supporting the vision laid out in the first-ever cost-effective ESD Flooring & Coating products and application strategy of Neocrete Technologies Pvt Ltd.



**Typical Application Areas of Neocrete's ESD Product**

**Neocrete introduces its "Ground Breaking" ESD coating products to stay ahead of technological advancements in most of the electronic manufacturing and assembly units all over the world.**

Product development strategy with the Neocrete 360 value chain of Neocrete's Team combines the extensive support to end users by supplying this product through E-Commerce website for the first time in India, so that our customers and channel partners can prosper. We thank our Customers, Channel partners, iNARTE certified Engineers, Engineering consultants, Facility management teams and Suppliers to introduce this unique range of ESD Flooring and Coating products."



## GUIDELINES FOR SELECTING ESD PRODUCT BASED ON APPLICATION

### ESD Protective sprays

**Neocarb** is a single-component, solvented, static conductive spray. It provides a static protective coat over a variety of surfaces. It gives a dark-grey, uniform, matt surface finish.

**Neocarb-T** is a single-component, solvented, static dissipative acrylic spray to provide a static protective coat over a variety of surfaces. It gives a translucent, uniform and matt surface finish.

### Application Areas:

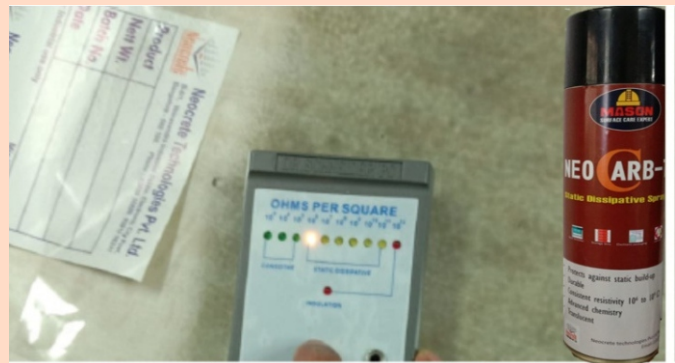
- > Electronic assembly areas including ESD bins, ESD trays & ESD workstations
- > Partitions & cubicles
- > Packaging for sensitive components
- > Static protection for electronic components
- > Shielding Rooms

### Features & Benfits:

- Protects against static build-up
- Durable
- Consistent surface resistivity reading
- Advanced Chemistry
- Neocarb is Dark Grey in colour
- Neocarb - T is Translucent



**Neocarb Conductive sprayed over Fabric**



**Neocarb-T Transparent Dissipative sprayed over PET sheet**

### ESD Protective paints (Solvent-borne)

**Neocoat ASAC-C** is a single-component, solvented, staticconductive acrylic liquid to provide a static protective coat over a variety of surfaces. It gives a darkgrey even surface finish. Neocoat ASAC-C can be coated by brush, roller or squeegee.

**Neocoat ASAC-D** is a single-component, solvented, static dissipative acrylic liquid to provide a static protective coat over a variety of surfaces. It gives a translucent even surface finish. Neocoat ASAC-D can be coated by brush, roller or squeegee.

### Application Areas:

- > Work tables in electrical and electronic assembly areas
- > Vertical surfaces In solvent handling areas
- > Photographic areas and telecommunications industry
- > Data centres and server rooms
- > Contact surfaces in ordnance factories
- > Wall panels and other insulative sheets to improve antistatic properties.

### Features & Benfits:

- Single component system and easy to apply
- UV and weather resistance.
- Delivers consistent resistance through out the surface
- Few dark colours are available (ASAC-D is Translucent)



**Neocoat ASAC-C over HIPS Sheet**



**Neocoat ASAC-D over PET Sheet**

## **ESD Protective paints (Water-borne)**

**Neoguard ASPAC-C** is a single component, aqueous, pigmented, anti-static poly-acrylic coating. It can be painted or rolled onto any surface to provide conductive static protection to the coated surface. It is suitable to be applied over wood, concrete, cement sheets or MDF with suitable primers.

**Neoguard ASPAC-D** is a single component, aqueous, pigmented, anti-static poly-acrylic coating. It can be painted or rolled onto any surface to provide dissipative static protection to the coated surface. It is suitable to be applied over wood, concrete, cement sheets or MDF with suitable primers.

### **Application Areas:**

- > Work tables in electrical and electronic assembly areas
- > Vertical surfaces In solvent handling areas
- > Photographic areas and telecommunications industry
- > Data centres and server rooms
- > Contact surfaces in ordnance factories
- > Wall panels and other insulative sheets to improve anti-static properties
- > Floors subjected to foot traffic as well light material movements

### **Features & Benfits:**

- Single component, pigmented system and easy to apply
- UV and weather resistance.
- Delivers consistent resistance through out the surface
- Limited range of colours are available
- Optional anti-microbial coatings for clean rooms ensure
- easy cleanability with anti-bacterial property

**Neocoat ASAC-C** is a technological marvel of a product. Its special formulation utilizes the superior properties of PU-acrylic polymers and conductive compounds to provide a crystal clear static-dissipative coating. It can be applied by brush, roller or squeegee onto wood, concrete, cement sheets or MDF with suitable primers. It can be diluted with water and applied over existing anti-static floors to rejuvenate the performance.

### **Application Areas:**

- > Cleanrooms and hospitals
- > Electronic manufacturing facilities
- > Medical facilities
- > Refurbishing or rejuvenating old anti-static tiles, antistatic vinyl sheets or anti-static carpets or even anti-static epoxy floors.

### **Features & Benfits:**

- Single component system and easy to apply
- UV and weather resistance.
- Delivers consistent resistance through out the surface



**Neoguard ASPAC-C over wooden board**



**Neoguard ASPAC-D over wooden board**



**Neoguard ST Clear over Transparent Acrylic Board**

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