

## Aqueous Epoxy Based Conductive Coating System

### DESCRIPTION

**CONDUDAN** is two component waterborne epoxy based anti-static coating system for use as conductive base coat in conjunction with epoxy based antistatic flooring system or with any other ESD coating / flooring system.

It is specially formulated with unique conductive fillers for use on surfaces to provide uniform electrical conductivity and make it suitable for electrostatic discharge, static disseminating and spark proof floor lining systems.

### ADVANTAGES

- V.O.C free
- Excellent anti-static property
- Water based - Environmental friendly
- Seamless system
- Maintains electrical conductivity over the useful life of epoxy flooring system
- Low odour during application
- Extended pot life and fast drying

### USES

**CONDUDAN** is used to provide a conductivity layer for subsequent anti-static floor toppings or coatings or ESD systems, in areas:

- Air-traffic control rooms and flight deck on ships
- Ammunitions and pyrotechnics manufacturing units
- Optical lenses and photographic production units
- Medical equipment units
- Electronic production areas and assembly shops
- Nuclear power plants
- LPG bottling and filling plant
- Areas handling/storing flammable/explosive goods

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

The surfaces receiving **CONDUDAN** must be sound, clean, dry, and free from cracks, loose particles and foreign materials which is detrimental to adhesion of **CONDUDAN**.

#### SURFACE PRIMING

In areas where anti-static flooring or ESD floorings is to be laid, prior to application of conductive coat **CONDUDAN**, the substrate must be insulated by applying non-conductive epoxy primer **DANOFLOOR PRIMER EP @ 6 to 8 m<sup>2</sup>/Kg.**, on well prepared substrate covering the entire area uniformly. (Refer TDS of **DANOPRIMER EP** for details).

Allow the primer to dry. On very absorbent or porous surface, it is necessary to apply second coat of primer.

#### CONNECTION TO EARTHING SYSTEM

Over the dry primer, self-adhesive copper tape is laid and connected to earthing system by providing a copper plate at the junctions and connecting the tape to the horizontal face of plate, the vertical end of plate is connected to earthen wire thereby completing the earthing system. (Refer TDS of **DANOFLOOR SL AS** for details).

#### CONDUCTIVE COAT

**CONDUDAN** is supplied as pre-weighed two components, ready to use at site. The components of **CONDUDAN** shall be mixed by taking **CONDUDAN Resin** component in a clean container followed by addition and gradual mixing of **CONDUDAN Hardener** component using slow speed heavy duty electric stirrer to achieve homogeneous and uniform mix.

The prepared mix of **CONDUDAN** is applied by brush or roller or trowel @0.8 to 10 m<sup>2</sup>/Kg., covering the entire area uniformly.

Water up to 10% can be added to the mix to maintain the application consistency of conductive base coat.

When used as a moisture-resistant barrier on concrete and masonry surfaces, **CONDUDAN** can be directly applied on concrete surface.

Allow the conductive coat to dry before applying subsequent layers.

After application, **CONDUDAN** should be top coated with anti-static floor topping or coating or ESD system.

## CLEANING

Immediately after application of **CONDUDAN**, use clean water for cleaning application tools.

## APPLICATION DATA

<b>Mix Ratio PWB</b> Resin: Hardener	100 : 150
Pot Life @30°C	Approximate 1 Hour
Curing Schedule	24 to 48 Hour (Hard Dry)
Coverage per Pack	20 to 25 m <sup>2</sup> per coat

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## PROPERTIES OF APPLIED PRODUCT

Properties*	Value	Test Standard
Tensile Strength	>18 N/mm <sup>2</sup>	ISO 527
Electrical Conductivity	500 to 2000 Ω	ASTM F150-06

\*Properties tested under laboratory condition for specimens cured for 15days @30°C. Properties may vary based on actual site conditions.

## STORAGE

**CONDUDAN** must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight and children.

## SUPPLY

**CONDUDAN** is supplied in 2.5 Kg, pack. It has a shelf life of 6 months when stored under the covered shed in sealed condition.

Packing: 2.5 Kg.

Resin	Hardener
1 Kg.	1.50 Kg.

## SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **CONDUDAN**.