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 m²/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 m²/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**

<table>
<thead>
<tr>
<th>Mix Ratio PWB</th>
<th>Resin: Hardener</th>
<th>100 : 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pot Life @30°C</td>
<td>Approximate 1 Hour</td>
<td>24 to 48 Hour (Hard Dry)</td>
</tr>
<tr>
<td>Coverage* per Pack</td>
<td>20 to 25 m² per coat</td>
<td></td>
</tr>
</tbody>
</table>

*Coverage is approximate and it depends upon the site conditions and surface porosity at the time of application.

**PROPERTIES OF APPLIED PRODUCT**

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Test Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>&gt;18 N/mm²</td>
<td>ISO 527</td>
</tr>
<tr>
<td>Electrical Conductivity</td>
<td>500 to 2000 Ω</td>
<td>ASTM F150-06</td>
</tr>
</tbody>
</table>

*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.

**SAFETY PRECAUTIONS**

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

**Disclaimer:** TIKI TAR DANOSA warrants that each of its products will be manufactured in accordance with the specifications in effect on the date of manufacture. While TIKI TAR DANOSA endeavors to ensure that information given herein is correct to the best of our knowledge, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. We recommend that adequate tests be performed by you to determine if this product meet all of your requirements.

**Note:** Properties subject to change as per specific requirement. Field service where provided does not constitute supervisory responsibility. Suggestions made by TIKIDAN either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not TIKIDAN, are responsible for carrying out procedures appropriate to a specific application. TIKIDAN reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order.