National Chemical Laboratories

TOTAL SURFACE SOLUTIONS

NO-ZAP
STATIC DISSIPATIVE FLOOR CARE SYSTEM

World Class Cleaning Solutions®
What is electrostatic discharge (ESD) and how can it be harmful?

STATIC ELECTRICITY is defined as an electrical charge caused by an imbalance of electrons on the surface of a material. This imbalance of electrons produces an electric field that can be measured and that can influence other objects at a distance.

ELECTROSTATIC DISCHARGE (ESD) is defined as the transfer of charge between bodies at different electrical potentials.

ESD can adversely impact productivity and product reliability in virtually every aspect of the electronics environment. The affects of ESD can range in impact from the catastrophic failure of equipment to the creation of a latent malfunction that, over time, will reduce equipment life and limit optimum performance of other non-affected equipment. While the sources of ESD are varied, one important area to control or dissipate ESD is from floor surfaces. An individual can generate up to 12,000 volts of static generation by simply walking across a tile floor.

Many aspects of electrostatic control in the electronics industry also apply in other industries, such as clean room applications and graphic arts. ESD adversely affects production yields, manufacturing costs, product quality and reliability. It has also been found that product losses due to ESD range from 8-33%, and estimated costs to the electronics industry associated with this damage run into the billions of dollars annually.

How does the NO-ZAP Static Dissipative Floor Care System help control ESD?

The NO-ZAP Static Dissipative Floor Care System effectively reduces surface resistivity on floor substrates. A static charge generated on a surface treated with the NO-ZAP Static Dissipative Floor Care System will dissipate the charge across the floor, even in low humidity environments. The reason is Zoran™, an NCL exclusive, which is essential in the dissipation of charges from static electricity.

The result... a beautiful “wet-look” gloss that is wear, scratch and scuff resistant.

When used with the NO-ZAP Static Dissipative Balanced Cleaner, the system provides extended ESD control.
NO-ZAP STATIC DISSIPATIVE FLOOR COATING

The most advanced polymer floor coating to effectively control electrostatic discharge (ESD) on all hard surfaces. Contains Zoran™, an NCL exclusive, which is essential in the dissipation of charges from static electricity. NO-ZAP was developed to meet the demanding needs of the electronic, microchip and telecommunications industries. This premium, high solids floor finish can be maintained with a variety of methods, and is formulated to be extra durable, resist marking, and produce an immediate wet-look gloss.

PACKAGE: 55 GALLON DRUMS, 4X1 GALLON CASES (#2600)

NO-ZAP STATIC DISSIPATIVE BALANCED CLEANER

A balanced cleaner for replenishing NO-ZAP Static Dissipative Floor Coating. Contains Zoran™, an NCL exclusive, which is essential in the dissipation of charges from static electricity. Ordinary cleaners, either acidic, alkaline or neutral, would act to remove Zoran from the floor. This causes the floor to have higher resistivity and lose its anti-static properties. Pleasantly scented, NO-ZAP Static Dissipative Balanced Cleaner replenishes the NO-ZAP Static Dissipative Floor Coating to restore the anti-static properties of the floor. Ideal to meet the demanding needs of the electronic, microchip and telecommunications industries. Use in clean rooms, electronic manufacturing, assembly and test areas.

PACKAGE: 4X1 GALLON CASES (#2601)
### STATIC DISSIPATIVE FLOOR COATING TEST DATA

<table>
<thead>
<tr>
<th>DESCRIPTION OF TEST SURFACE</th>
<th>STATIC DECAY</th>
<th>SURFACE RESISTIVITY</th>
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</thead>
<tbody>
<tr>
<td>UNCOATED TILE</td>
<td>&gt; 20.0 SECONDS</td>
<td>1 x 10^{14}</td>
</tr>
<tr>
<td>TILE COATED WITH CONVENTIONAL FLOOR FINISH</td>
<td>&gt; 17.0 SECONDS</td>
<td>1 x 10^{12}</td>
</tr>
<tr>
<td>TILE COATED WITH NO-ZAP STATIC DISSIPATIVE FLOOR COATING</td>
<td>&lt; 0.01 SECONDS</td>
<td>1 x 10^{6} - 10^{7}</td>
</tr>
<tr>
<td>TILE COATED WITH NO-ZAP STATIC DISSIPATIVE FLOOR COATING/ CLEANED WITH NO-ZAP STATIC DISSIPATIVE BALANCED CLEANER</td>
<td>&lt; 0.02 SECONDS</td>
<td>1 x 10^{7} - 10^{8}</td>
</tr>
<tr>
<td>TILE COATED WITH NO-ZAP STATIC DISSIPATIVE FLOOR COATING &amp; MAINTAINED WITH 50/50 SOLUTION OF NO-ZAP FLOOR COATING</td>
<td>&lt; 0.01 SECONDS</td>
<td>1 x 10^{6} - 10^{7}</td>
</tr>
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**DESCRIPTION OF TEST**

5000 KV measured using MIL-B-81705B METHOD 4046. STANDARD OF < 1.0 SECONDS

**SURFACE RESISTIVITY**

(500V) measured using ASTM D257-78

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**TOTAL SURFACE SOLUTIONS™...**

from National Chemical Laboratories

Complete maintenance programs for all surfaces...hard surface floors, stone, ceramic, carpets, anti-static and other specialty surfaces. NCL has the right product, programs and expertise to solve your most difficult maintenance problem. We provide on-site training to assure proper product use, helping you control your overall cleaning costs!

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World Class Cleaning Solutions®

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