



National Chemical
Laboratories

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TOTAL SURFACE SOLUTIONS

Floor Care Solutions

NO-ZAP

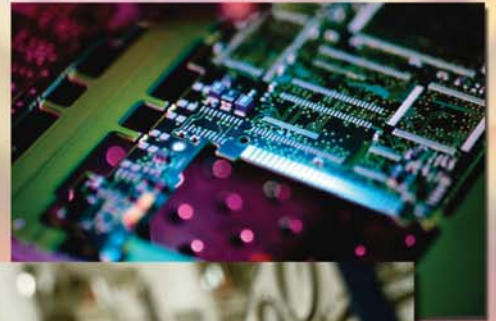
STATIC DISSIPATIVE FLOOR CARE SYSTEM



World Class Cleaning Solutions™

NO-ZAP

STATIC DISSIPATIVE FLOOR CARE SYSTEM



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.



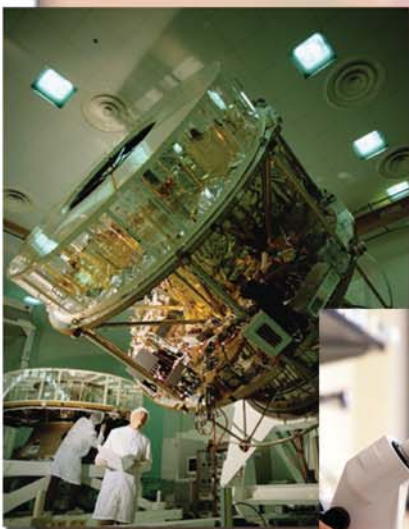
Many aspects of electrostatic control in the electronics industry also apply in other industries, such as clean room applications and graphic arts. ESD adversely affects production yields, manufacturing costs, product quality and reliability. It has also been found that product losses due to ESD range from 8-33%, and estimated costs to the electronics industry associated with this damage run into the billions of dollars annually¹.

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

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)

APPLY NO-ZAP ON:

- VINYL TILE
- VCT
- VAT
- RUBBER TILE
- TERRAZZO
- CONCRETE

IDEAL FOR:

- CLEANROOMS
- MICROCHIP MANUFACTURING
- ASSEMBLY
- LABORATORIES
- TEST AREAS
- TELECOMMUNICATIONS



FLOOR COATING AND FINISHING MATERIAL

AS TO SLIP RESISTANCE ONLY 18EL

Type Pure acrylic polymers
 Non-Volatile Solids 22 ± .5%
 pH..... 8.5 - 9.5
 Coverage..... 2500 sq. ft./gal
 Drying Time 40-60 minutes
 Color..... White, opaque liquid

Odor Typical acrylic
 Film Appearance Clear
 Powdering None
 Flash Point None
 Slip Resistant Yes

NO-ZAP

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)



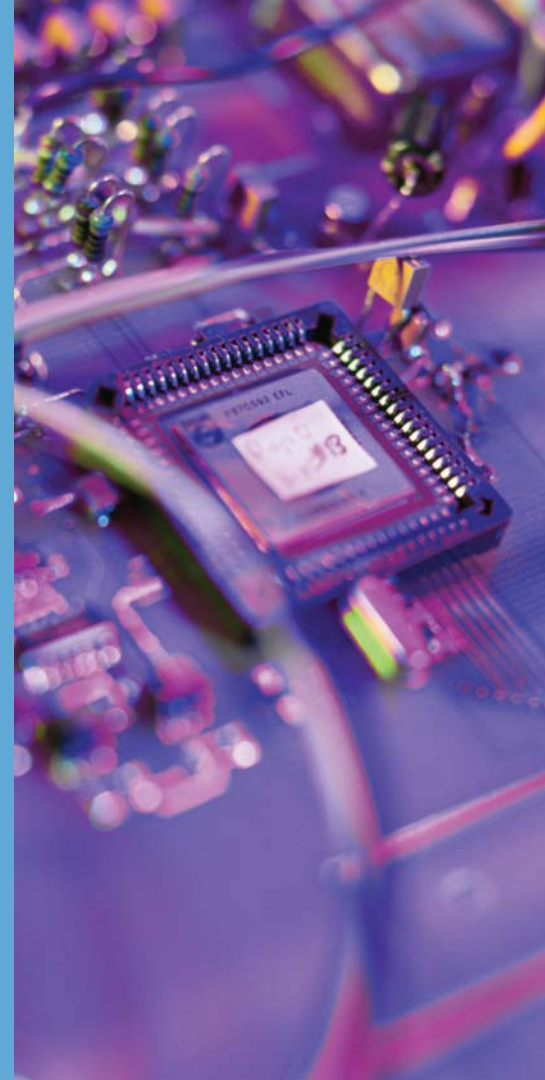
Color..... Green
 Odor Citrus
 pH Concentrate 7.5 ± .3
 pH Use Dilution 7.0 ± .3
 Solubility Complete in water
 Specific Gravity 1.07 ± .005 gr/cc
 Density 8.9 ± .04 lbs./gal.
 Detergency Excellent
 Viscosity <10 cps

Vapor Pressure 25mm @ 75°F
 High Temp. Cloud Above 130° F
 Low Temp. Cloud Below 32° F
 Static Dissipative..... Yes
 Flash Point None
 Toxic..... No
 Storage Stability 1 Year Min.
 Cleaning Superior, Film Free

NO-ZAP

STATIC DISSIPATIVE FLOOR COATING TEST DATA

DESCRIPTION OF TEST SURFACE	STATIC DECAY <small>5000 KV MEASURED USING MIL-B-81705B METHOD 4046. STANDARD OF < 2.0 SECONDS</small>	SURFACE RESISTIVITY <small>(500V) MEASURED USING ASTM D257-78</small>
UNCOATED TILE	> 20.0 SECONDS	1×10^{14}
TILE COATED WITH CONVENTIONAL FLOOR FINISH	> 17.0 SECONDS	1×10^{12}
TILE COATED WITH NO-ZAP STATIC DISSIPATIVE FLOOR COATING	< 0.01 SECONDS	$1 \times 10^6 - 10^7$
TILE COATED WITH NO-ZAP STATIC DISSIPATIVE FLOOR COATING/ CLEANED WITH NO-ZAP STATIC DISSIPATIVE BALANCED CLEANER	< 0.02 SECONDS	$1 \times 10^7 - 10^8$
TILE COATED WITH NO-ZAP STATIC DISSIPATIVE FLOOR COATING & MAINTAINED WITH 50/50 SOLUTION OF NO-ZAP FLOOR COATING	< 0.01 SECONDS	$1 \times 10^6 - 10^7$



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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