

DESCO INDUSTRIES INC TECHNICAL BULLETIN TB-7005

Reztore® Antistatic Coating Application Instructions



Made in the
United States of America



Figure 1. Reztore® Antistatic Coating
1 Quart (1 liter) Spray Bottle
2.5 Gallons (10 liters) Bag-in-Box

Description

Reztore® Antistatic Coating is a topical antistatic solution for use on dissipative and non-ESD surfaces. After Reztore® Antistatic Coating has been applied and the surface dries, an antistatic and protective static dissipative coating is left behind. The static dissipative coating will allow charges to drain off when grounded. The antistatic properties will reduce triboelectric voltage to under 200 volts. Reztore® Antistatic Coating will enhance existing electrical properties of ESD surfaces and give non-ESD surfaces electrical properties until the hard coat is worn away. Reztore® Antistatic Coating does not leave behind any harmful insulative barriers.

General Guidelines

Reztore® Antistatic Coating can be used on a variety of surfaces, especially surfaces used in a static sensitive environment. Surfaces include but are not limited to: rubber, vinyl and polyethylene table and floor mats, field service kits, laminated table tops, tote boxes, epoxy, painted surfaces, plexiglass, glass, metal, 3-ring binders, computer screens, computer keyboards, shelving, push carts, conveyor belts, etc practices)

Directions

Surfaces

Apply Reztore® Antistatic Coating to the entire surface to be treated using either the pump or trigger spray bottle. Use a lint-free cloth to wipe the surface evenly. For rough or porous surfaces two coats may be needed to obtain proper protection.

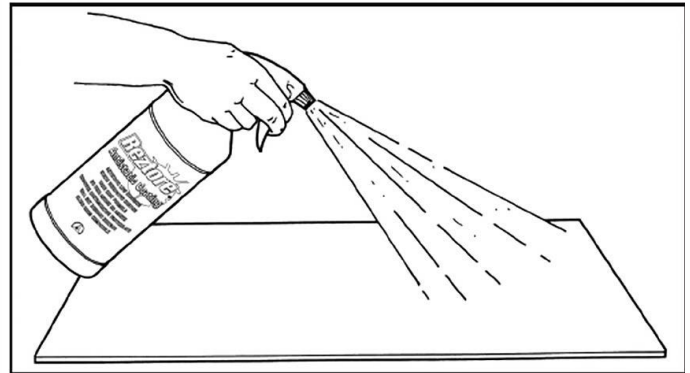


Figure 2. Apply Reztore® Antistatic Coating to the mat

Other Surfaces - Keyboards:

Dampen a lint-free cloth or a lint-free swab with Reztore® Antistatic Coating. Wipe surface to be protected using either the cloth or swab. The swab will work best for tight spots like between keyboard keys. Use the cloth to wipe the remaining surfaces of the keyboard or surface to be protected.

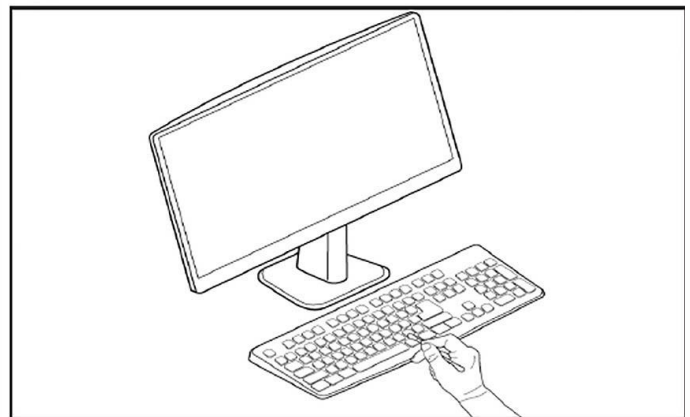


Figure 3. Clean a keyboard with Reztore® Antistatic Coating

When dry, Reztore® Antistatic Coating will leave a thin protective antistatic, as well as static dissipative coating on the surface. This enhances existing ESD surfaces and will give temporary electrical properties to insulative surfaces.

Specifications

Reztore® Antistatic Coating has zero ionic contamination, which will neither contaminate nor corrode sensitive components and assemblies.

Ion	Level (mg/L)	Limit of Detection (mg/L)
Bromide	<3	3
Chloride	<1	3
Fluoride	<0.5	0.5
Nitrate	0.5	0.5
Nitrite	<0.5	0.5
Ortho-phosphate	<5	5
Sulfate	<3	3

Meets conditions of clean room class 1 for above listed ion contaminants per FED-STD-209C.

Electrical Properties

Surface Resistance	1×10^6 to $< 1 \times 10^9$ ohms per ANSI/ESD S4.1
Triboelectric Charge	<200 volts
Charge Decay	0.02 sec. FTMS 101C, Method 4046

Testing

It is recommended to test the surfaces after applying to ensure that all insulative areas have been coated. Desco Industries recommends Reztore® Surface & Mat Cleaner to thoroughly clean the surface before applying Reztore® Antistatic Coating. Reztore® Antistatic Coating is specifically designed to leave behind an antistatic as well as static dissipative coating of 10^9 ohms, to enhance and provide the static safe properties of the surface. Testing for either surface resistance point to point (RTT) or resistance to ground (RTG) will indicate if the surface is coated properly.

Field Test

For quick and easy verification of surface resistance we recommend the use of a megohmmeter. These are available from many Desco Industries companies. For testing of static fields, we recommend the use of a static field meter. These instruments are also available from many Desco Industries companies.

Storage

Reztore® Antistatic Coating does not have a set life span. The chemicals are not known to degrade over time when stored at the proper temperature conditions as stated in the Safety Data Sheet. We also recommend that the product be stored in its original container and be sealed when not in use.

RoHS, REACH, and Conflict Minerals Statement

See the Desco Industries RoHS, REACH, and Conflict Minerals Statement:

DescoIndustries.com/ROHS.aspx

Desco Industries Limited Warranty

See the Desco Industries Limited Warranty:

DescoIndustries.com/Warranty.aspx

Reztore® Antistatic Coating is available from these Desco Industries brands:

DESCO

for service and support in North America

1 Quart [10415](#)

2.5 Gallons [10418](#)

DESCO EUROPE

for service and support in United Kingdom and Europe

1 Litre [229014](#)

10 Litres [229015](#)

DESCO ASIA

for service and support in Asia

1 Liter [10415](#)

10 Liters [10418](#)