

DESCO INDUSTRIES, INC. TECHNICAL BULLETIN TB-7005

Reztore™ Topical Antistat Application Instructions



Made in the
United States of America



Figure 1. Reztore™ Topical Antistat
1 Quart (1 liter) Spray Bottle
2.5 Gallons (10 liters) Bag-in-Box

Description

Reztore™ Topical Antistat is a topical antistatic solution for use on dissipative and non-ESD surfaces. After Reztore™ Topical Antistat 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™ Topical Antistat will enhance existing electrical properties of ESD surfaces and give non-ESD surfaces electrical properties until the hard coat is worn away. Reztore™ Topical Antistat does not leave behind any harmful insulative barriers.

General Guidelines

Reztore™ Topical Antistat 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™ Topical Antistat 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.

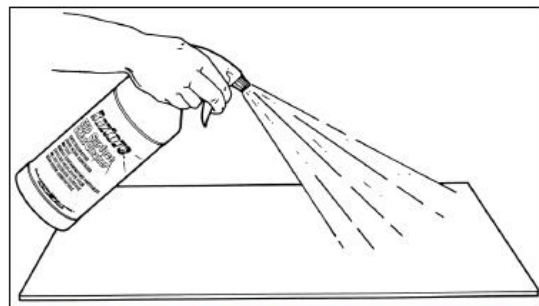


Figure 2. Applying Reztore™ Topical Antistat to the mat

Other Surfaces - Keyboards:

Dampen a lint-free cloth or a lint-free swab with Reztore™ Topical Antistat. 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.

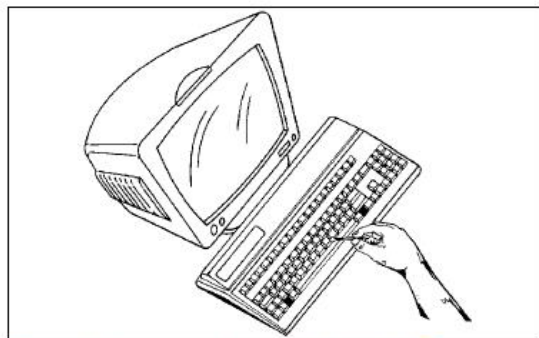


Figure 3. Cleaning a keyboard with Reztore™ Topical Antistat

When dry, Reztore™ Topical Antistat 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.

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Specifications

Reztore™ Topical Antistat 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™ Topical Antistat. Reztore™ Topical Antistat 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™ Topical Antistat 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 2, REACH, and Conflict Minerals Statement

None of the RoHS 2 restricted materials or REACH substances of very high concern as of 2016/06/20, or Conflict Minerals are intentionally added in manufacturing this product. Ref: European Union Directive 2011/65/EU and Regulation (EC) No. 1907/2006/CE.

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the Desco Industries Limited Warranty: <http://www.descoindustries.com/Warranty.aspx>

Reztore™ Topical Antistat is available from these Desco Industries brands:

DESCO

for service and support in North America

1 Quart	10415
2.5 Gallons	10418



for service and support in United Kingdom

1 Litre	71035
10 Litres	71036

Vermason

for service and support in United Kingdom

1 Litre	229014
10 Litres	229015

DESCO ASIA

for service and support in Asia

1 Liter	10415
10 Liters	10418

DESCO JAPAN

for service and support in Japan

1 Liter	10415
10 Liters	10418