

staticWorx[®]
GroundSafe™ ESD Flooring



StaticWorx Award-winning
Eclipse Rubber

Eclipse EC
Eclipse GF

The only fault-tolerant ESD floor

ECLIPSE RUBBER - when static discharge can't be tolerated

ESD analysts recommend rubber flooring for applications where static discharge can't be tolerated. Rubber has inherent anti-static properties, meaning it inhibits static generation naturally - without the use of special ESD-protective footwear.

Eclipse Rubber - our flagship, award-winning line of rubber flooring - is often the preferred choice of architects, contractors and facility managers for cleanrooms, labs, and electronics manufacturing and handling facilities, as well as 24/7 operations such as server rooms, hospitals, data and critical call centers, schools, and more.

Eclipse Rubber comes with a Lifetime Conductivity Warranty...and it brings you lifetime peace of mind.

Now, we are offering two versions of Eclipse Rubber:



Laboratory



Manufacturing Facility

ECLIPSEEC - tile and rolls

StaticWorx launched EclipseEC (Electrically Conductive) rubber in 2010 - the industry's only fault-tolerant, low-charging ESD floor.

EclipseEC won the Seal of Approval from *ESD Journal* as the only product suitable for Class-0 ESD (electrostatic discharge) applications. Research performed by an independent lab found EC rubber to be the only product that inhibits static generation regardless of footwear. And it was voted a top, money-saving product by *Buildings*.

EclipseEC is available as sheets as well as tiles. It can cover an entire room or be installed strategically as a floor mat, runner, or small island.

ECLIPSEGF - rolls only

Having witnessed many problems with high-vapor concrete and to address fast-track construction, we launched EclipseGF (Glue-Free). EclipseGF provides the same benefits of EclipseEC with the added advantages of being glue-free and moisture-resistant.

With EclipseGF, there is no need for pre-installation testing of subfloors for vapor, nor buckets of glue, troweling, or clean-up - allowing for easy installation with no down-time. Self-sticking Eclipse GF can be applied directly over most surfaces, including wood, steel, concrete, and epoxy. Simply trim, peel the protective adhesive, roll on - done.

EclipseGF is available only as sheet rolls. It can cover an entire room or be installed strategically as a floor mat, runner, or small island.



Laboratory

WHICH IS RIGHT FOR YOU?

At StaticWorx, we can help you decide which version of Eclipse Rubber is best for your application. In Figure 1, we outline the common attributes of EC and GF as well as a couple of differences.

FIGURE 1: COMPARISON BETWEEN ECLIPSE^{EC} and ECLIPSE^{GF}

| | ECLIPSE ^{EC} | ECLIPSE ^{GF} |
|--|-----------------------|-----------------------|
| Static-free | Yes | Yes |
| Environmentally friendly | Yes | Yes |
| Fault-tolerant | Yes | Yes |
| Has antistatic attributes | Yes | Yes |
| Can be installed seamless | Yes | Yes |
| Meets ANSI/ESD S20.20 | Yes | Yes |
| Meets BS EN 61340-5-1 2010 | Yes | Yes |
| Can be seam-welded | Yes | Yes |
| Glue-free | No | Yes |
| Moisture-resistant | No | Yes |
| Can be installed over raised access floor panels | Yes | No |



Cleanroom



9-1-1 Call Center

Electrostatic Discharge (ESD) affects two different environments:

Type 1 – Electronics manufacturing and component handling

Static generation must be < 100 volts

Type 2 – End-user spaces such as call centers, control rooms, data centers, server rooms, banking, and government offices (among others).

In these spaces, static generation must be < 400 volts.

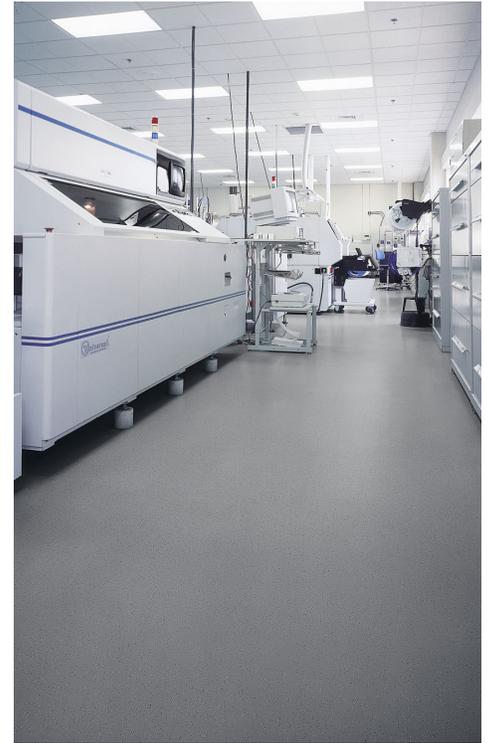
ESD PERFORMANCE **ECLIPSE EC & GF**

With ESD footwear

Less than 20 volts (.02 kV)

With ordinary footwear

Less than 400 volts (.4 kV)



Electronics Handling

ECLIPSE RUBBER - Free of Footwear Requirements in End-user Environments

Is your workspace an end-user environment such as a 9-1-1 dispatch operation, critical call center, telecom facility, flight tower, or bank?*

Can you reasonably expect employees to wear special footwear or heel or toe straps?

If the answer is no, it's wise to select a floor that inhibits static generation without the use of ESD-protective footwear.

With fault tolerant flooring:

- People can wear the wrong shoes but still be protected.
- Waxes, polishes, and sprays need not be applied.
- Humidity, temperature, and traffic, which can affect static generation on some floors, are not part of the equation.

In end-user spaces, Eclipse EC and GF rubber inhibit static regardless of footwear.

* *Other end-user environments include government offices, media control rooms, server rooms, data centers, etc.*

The first flooring product that inhibits static regardless of footwear? EclipseEC Rubber.

Which is worn in your facility?



Unlike vinyl and resinous coatings, EclipseRubber is an inherently low-charging material, easy to maintain, and sustainable.

Static Charge Generation Based on Footwear

Static Generated While Walking (Volts)



Standard,
Non-ESD
Flooring



PVC and
Epoxy ESD
Floors

<400

staticworx
Eclipse - EC
and GF - Rubber

<20

staticworx
Eclipse - EC
and GF - Rubber
with ESD Footwear

This chart shows static generated when people walk on floors wearing regular (non-ESD) street shoes.
*Applicable to data centers, server rooms, flight towers, PSAPs, critical call centers, government offices, banking and other critical end-user spaces.
For electronics applications, which require charge generation to be below 100 volts, it's necessary to use ESD-protective footwear.*

THE BENEFITS OF ECLIPSE EC & GF

Glue-Free, Moisture-Resistant, Seamless

EclipseGF has a pre-applied, solvent-free, self-adhesive, allowing for clean, fast installation. Just peel the protective adhesive, roll the material onto the subfloor and start walking

Glue-free advantages:

- Cuts installation time by as much as 50%.
- No testing for moisture.
- No dry time.
- No down time.

In most installations, the concrete must be tested for vapor emission before ESD flooring is installed. This is not the case with EclipseGF.

With EclipseGF, there are no extra costs for supplies and labor and cleaning is fast, easy and inexpensive - offering the lowest lifetime cost of ownership of any resilient flooring.



ESD Protected Area

Maintenance

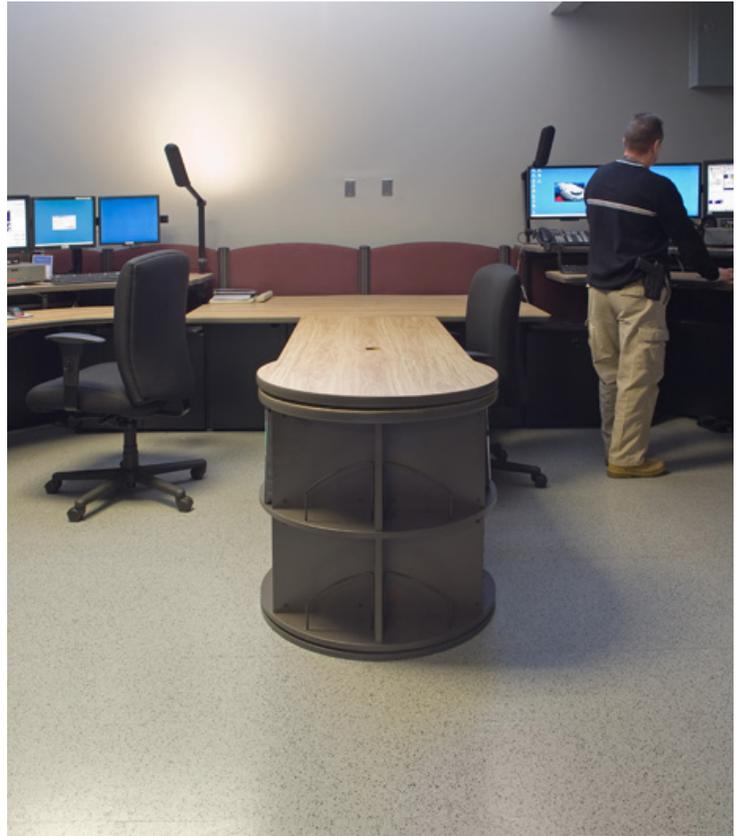
Maintenance requires only soap and water, not wax. Unlike the pore-filled surface of PVC floor tiles, Eclipse Rubber won't collect dirt, resulting in lower cost of ownership.



The surface of StaticWorx® Eclipse Rubber magnified 100:1



Large dirt collecting pores in plastic PVC floor tile magnified 100:1



Police Department

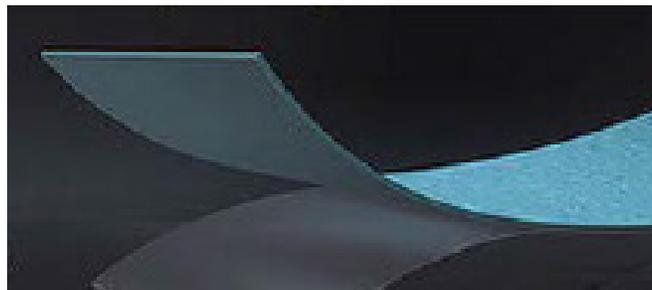
Slip-Resistant, Sound-dampening, Anti-Fatigue

Eclipse Rubber is also slip-resistant and has sound-dampening and anti-fatigue properties.

HIGH MOISTURE? OCCUPIED SPACE? NO PROBLEM, ECLIPSEGF IS THE SOLUTION.



Vapor emissions as well as other environmental factors can affect installation.



No moisture limits. No need for pH or RH testing. No wait for drying or cleaning messy adhesives. Ready for use immediately after installation.

Customers tell us that EclipseGF is seamless on many levels. It makes contact with 100% of the concrete below, ensuring a surface that is always flat, even, and aesthetically pleasing.

ECLIPSE RUBBER

IS PVC FREE

Eclipse Rubber has been recognized as an environmentally friendly, green product that has earned GREENGUARD Certification for indoor air quality.

What makes Eclipse Rubber good for the environment?

- No PVC
- No plasticizers
- No urethane
- No phthalates
- No halogens
- No chemicals or waxes needed for cleaning
- GREENGUARD gold certified

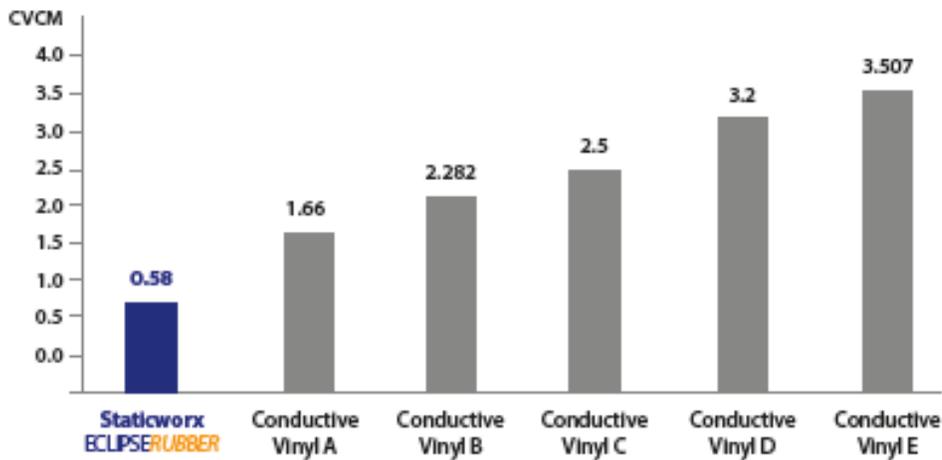
Minimal Outgassing

Conductive rubber flooring performs well in elevated temperature out-gassing tests because rubber is made without plasticizers.



Imaging Room

OUTGASSING COMPARISON ACCORDING TO ASTM-E 595



CVCM stands for collected volatile condensable material – the quantity of outgassed matter from a test specimen that condenses on a collector maintained at a specific constant temperature for a specified time. CVCM is expressed as a percentage of the initial specimen mass and is calculated from the condensate mass determined from the difference in mass of the collector plate before and after the test.

*Tests performed by an independent testing company

ECLIPSE RUBBER IS STATIC FREE

Finally, and perhaps most importantly, let's not forget what made EclipseEC an award-winning product to begin with. We mentioned before that both versions of Eclipse Rubber are static-free, but it bears repeating when you consider the following.

Eclipse Rubber meets all the critical domestic and international industry standards, including:

- NFPA 99 (healthcare)
- ANSI/ESD S20/20, ANSI/ESD S97.1 (system resistance)
- ANSI/ESD 97.2 (body voltage generation)
- DOD 4145.26-M (munitions handling)
- NASA-grade, clean-room requirements

It is third party Class-0 ESD-certified, ensuring maximum protection for your worksite.



Electronics Aisle

ECLIPSE RUBBER SPECIFICATIONS

| | |
|-----------------------------|---|
| Construction: | Two-layer, vulcanized conductive rubber |
| Thickness: | 2 mm |
| Total Weight: | N/A |
| Size - EclipseEC: | 4' x 40' rolls and 24" x 24" tile |
| Size - EclipseGF: | 4' x 40' rolls |
| Static Generation | Less than 10 Volts per ESD STM 97.2 |
| Abrasion Resistance: | ASTM D 3389 H-18 wheel, 500gm load |
| Taber Abrasion Test: | ASTM D 3389, H-18 wheel, 500 gram load, 1000 cycles, gram weight loss not greater than 0.70 |
| System Resistance: | $< 1.0 \times 10^6$ |



Presto



Largo



Cantata
(special order)

Eclipse EC and GF rubber are carbon neutral through the lifecycle of the material.

Zero red-listed items (per LBC)



STATBOND™ PRESSURE-SENSITIVE (PS) ADHESIVE

A solvent free, conductive acrylic adhesive engineered for use with any conductive or static-dissipative rubber or vinyl floor covering. Statbond pressure-sensitive adhesive creates a permanent conductive bond between the ESD flooring material and the subfloor. Well-suited for any area requiring a strong, permanent bond.

StatBond PS can be used on all grades of concrete - on, above or below grade - in the absence of moisture as well as over suspended, approved wood floors (APA.)

StatBond PS can be spread over a large area and allowed to dry before installing tiles. No oozing of adhesive into seams when the floor is rolled, allowing for easy clean-up with no seepage or mess.

- FloorScore® Certified by SCS Global Services
- Solvent Free
- Provides LEED points
- Non-flammable
- Excellent conductivity
- For porous and non-porous surfaces
- No mixing required
- Easy cleanup
- Easy to trowel
- Exceptional side-to-side stability
- No odor, no VOC's
- Anti-microbial
- Permanent bond
- Ideal for rugged applications
- Partially used containers can be resealed
- Meets ANSI/ESD S20.20 with StaticWorx Flooring

TESTED FOR

- Shelf Life (ASTM D1337)
- Freeze-thaw stability (ASTM D7149)
- Adhesive Shear Strength (ASTM D6004)
- Plasticizer Resistance (ASTM D7888)
- 90° Peel Resistance (ASTM D6862)
- Heat Aged Expansion/Contraction
- Caster Chair Tolerance (ISO 4918)
- PACKAGING: Available in 1-gallon and 4-gallon pails.
- COVERAGE: Approximately 180 - 220sq. ft. per gallon

About StaticWorx

StaticWorx manufactures the highest quality ESD flooring products available today. Our company has installed tens of millions of square feet of ESD flooring throughout the U.S., Canada, Mexico, Australia, Singapore, New Zealand and the U.K.

Some of our clients include EMC Corporation, BAE Systems, Benchmark, Flex, Lockheed Martin, Microsoft, Philips Healthcare, Amazon, Apple, Intel, Google, and Facebook.

All StaticWorx products are made in ISO-9000 certified factories and undergo rigorous testing by independent laboratories prior to shipment.

For clients who prefer a worry-free project, StaticWorx will help choose the best floor for the specific application, match your project with our best flooring installation team, oversee the installation, and test your new floor's electrical properties to be sure the floor meets your specifications.

“The StaticWorx seminar may be the best AIA presentation I've sat through over the past 10 years. I recommend it to any architect or engineer that may have projects with static-control flooring.”

Brian Frels
AIA, NCARB - Principal ARIUM ae

To schedule a Zoom ESD training session or AIA (architects') CEU workshop, please contact us at info@staticworx.com
Or call: 617-923-2000

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