Industrial Flooring

Sikafloor® ESD Control Flooring

CONDUCTIVE & STATIC DISSIPATIVE

A unique approach to electrostatic control

In industries where electronic components or volatile chemicals are involved, static electricity can result in significant damage, injury and financial loss. Protect your work environment against electrostatic discharge with Sikafloor® ESD Control Flooring Systems.

- Consistent electrical properties
- No conditioning of electrical properties required
- Easy to repair and maintain
- Low Odor / Low VOC systems
- Proprietary technologies developed by ESD flooring experts

Customized static control

Facility needs and flooring conditions vary significantly. Sika's dedication to research and development in ESD control allows us to offer the most extensive ESD polymer product line on the market today, providing a vast range of ESD flooring possibilities to precisely match your specific facility needs:

Sikafloor® ESD Primers

Sika offers a wide variety of ESD primers that penetrate deep into the concrete. Sikafloor ESD primers are available in both the conductive and static dissipative ranges. Additionally, Sika offers specially formulated primers for use over vinyl tile.

Sikafloor® ESD Coatings

Sika's diverse line of epoxy and polyurethane ESD coatings allow you to fully customize your flooring system based on aesthetic preferences, desired ESD control range, area-specific wear/traffic and chemical exposure. Our low odor, low VOC formulations comply with air quality mandates and assist your facility toward its green building efforts.

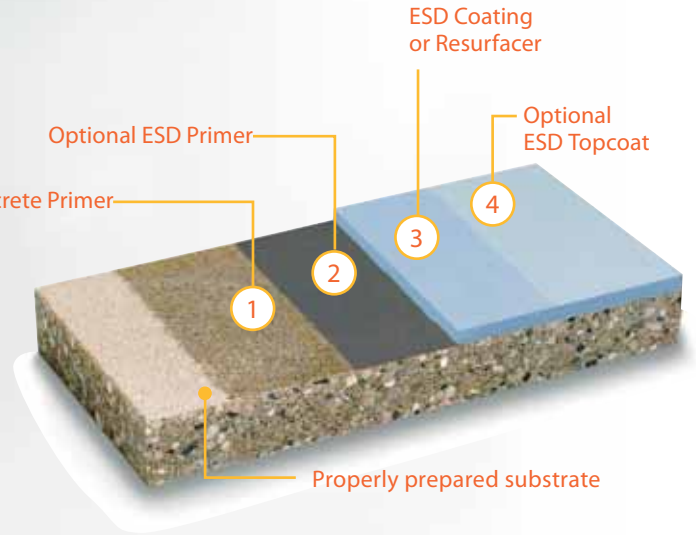
Sikafloor® Chemical Resistant ESD Coatings

Our epoxy novolac and vinyl ester ESD systems are suited for interior or exterior areas that require an additional level of chemical resistance combined with static control. A spark proof option is offered for chemical storage areas.

In addition to our ESD Control Flooring products, Sika offers a wide variety of polymer flooring technologies to help level, build-up and strengthen your concrete substrate prior to installing an ESD Control coating. These technologies include:

- Epoxy Mortars
- Urethane Cements
- Polymer Concrete Resurfacers

Typical Sikafloor® ESD Control Flooring System:



COMPARE:
ESD Control Flooring

	Sikafloor® ESD Systems	ESD Tile	ESD Carpet	ESD Rubber	ESD Floor Mats
BVG <15 volts	✓			✓	✓
Easy to install/apply	✓				✓
Low initial cost	✓				✓
Low cost to maintain	✓				✓
Decorative	✓	✓	✓		
Choice of colors	✓	✓	✓		✓
Light reflective	✓				
Industrial applications	✓				✓
Chemical resistant	✓			✓	
Wear resistant	✓			✓	
Non-staining	✓			✓	✓
Safe, non-skid options	✓				
Seamless	✓				

Properties may not be applicable to every flooring technology available. BVG properties not applicable to every Sikafloor ESD floor product. Contact your Sika Industrial Flooring representative for detailed information.

The Keys to A Successful ESD Floor

While proper flooring selection and installation by qualified installers are critical factors in your ESD Control Flooring System's success, did you know that people can still adversely affect the ESD of your floor? That's why Sikafloor's total ESD control system consists not only of a properly grounded floor, but proper grounding of the human body and footwear.

Sikafloor ESD Control Flooring Systems meet and/or exceed a series of relevant tests:

FLOOR MATERIALS - RESISTIVE CHARACTERIZATION OF MATERIALS

Sikafloor ESD Control Flooring's surface is very consistent when the resistances considered are measured from the top of the floor material to its ground connection and from the top surface to top surface locations. Point to Ground and Point to Point. (ANSI/ESD S7.1-2005)

FLOOR MATERIALS AND FOOTWEAR - RESISTANCE MEASUREMENT IN COMBINATION WITH A PERSON

Sikafloor ESD Control Flooring's surface is very consistent when measuring the electrical system resistance of floor materials in combination with persons wearing proper static control footwear, shoes or other methods where protection of ESD susceptible items is required. (ANSI/ESD STM97.1-2006)

FLOOR MATERIALS AND FOOTWEAR - VOLTAGE MEASUREMENT IN COMBINATION WITH A PERSON

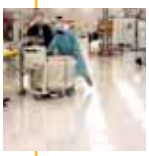
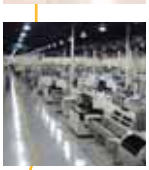
Sikafloor ESD Control Flooring's surface is very consistent and typically produce BVG well below the established standard of < 100V when measurements of the Person in Combination with Floor materials and proper static control footwear, shoes or other devices is measured. Sikafloor ESD Control Coatings can produce BVG results as low as 15V in low humidity conditions. (ANSI/ESD STM97.2-2006)

CHOOSING YOUR FLOOR
Important Factors to Consider

When it comes to selecting an ESD Control flooring system, there are several factors to consider that will affect your initial investment, as well as the life cycle of your ESD floor:

- CONSISTENCY OF ELECTRICAL PROPERTIES
  What are the desired ESD performance characteristics over the life span of the floor? Will the ESD properties have to be reconditioned over time?
- DURABILITY
  How well will the floor stand up to its intended use? What types of vehicles or material handling equipment will be used on the flooring surface?
- CHEMICAL RESISTANCE
  What types of chemicals (i.e. solvents, fluxes, alcohols, acids and solders) will normally be used on the flooring surface?
- ODOR
  Does the coating have an odor? If so, will personnel be able to work during installation despite the presence of the odor?
- MAINTENANCE
  The floor must be easy to maintain. Are special waxes or floor finishes required to maintain the ESD floor? The cost of the materials, coating application and periodic stripping can add tremendously to the overall cost.
- AESTHETICS
  The flooring material should be light-reflective, attractive and have a positive effect on personnel.
- COST-EFFECTIVENESS
  The product should meet all performance requirements at a price that is affordable.
- INSTALLATION
  How and by whom will the floor be installed? Sikafloor products are installed the same way any non-ESD coating or resurfacer is applied: by Sika-preferred and trained contractors. The performance of competitors' floors depends substantially on the skill of the installer.
- REPAIRABILITY
  A floor will be recoated for aesthetics long before the original coating wears out. Sikafloor ESD particulate thin-film systems are generally applied in one coat over existing Sikafloor ESD installations. This also allows the end user to change colors or highlight work stations to improve plant appearance.



ESD Static Control
INDUSTRIAL FLOORING SYSTEMS

ESD Standard Color Chart

Marshall Blue ESD 451	Sky Gray ESD 100	Light Gray ESD 122	Medium Gray ESD 124
Dark Gray ESD 126	Beige ESD 248	Tan ESD 251	Brick Red ESD 332

Because of the limitations of process color printing, the color samples contained here in are close approximations of actual colors and should not be relied upon for true color. For actual product color samples, contact your local Sika Industrial Flooring representative.

A SAMPLING OF
Sikafloor® ESD-Control Installations:

Allen-Bradley
AT&T
Bendix
Boeing Aircraft
Cape Canaveral
Delphi Electronics
DSC Communications
Eastman Kodak
Flextronics
G.E. Inspection Services
Hitachi Automotive
IBM
Ingersoll-Rand
Jabil
Kellogg Co.
Lockheed
Loral Space Systems
Marquardt Switch
Marshall Industries
McDonnell-Douglas
Motorola
Orbital Science
Panasonic
Procter & Gamble
Raytheon
Sanmina
Scientific-Atlanta
Solectron
United States Air Force

Different types of footwear interact differently with various types of flooring materials:

- ESD shoes are recommended.
- Heel/toe straps and grounders may be used but generally provide less protection.
- Simple insulative footwear (rubber and synthetic) should be avoided, as it does not allow for efficient removal of body charge.

TYPICAL APPLICATIONS

Aerospace plants
Airplane hangars
Assembly areas
Automotive plants
Cereal/grain plants
Chemical plants
Circuit board assembly areas
Clean rooms
Corridors
Cosmetic plants
Data processing areas
Electronic computer areas
Electronics manufacturers
Equipment calibration areas
Fixed base operators
Fuel cell maintenance areas
Hospitals
Laboratories
Medical suppliers
Military bases
Oil refineries
Packaging areas
Pharmaceutical plants
Production areas
Seminconductor production rooms
Solvent storage areas
Testing laboratories
Traffic aisles

To receive an ESD floor and wall system recommendation for your specific area, please call Sika Industrial Flooring's ESD Technical Specialists at (800) 321-2395.

Electrical Characteristics
POINT-TO-POINT AND SURFACE-TO-GROUND AT 100 VOLTS*

Static Dissipative Range: $1x10^6$ to $1x10^9$
Static Conductive Range: $2.5x10^4$ to $1x10^6$

* Tested in accordance with ANSI/ESD S 7.1-2005, ANSI/ESD STM 97.1-2006 and ANSI/ESD STM 97.2-2006.

All Sikafloor ESD flooring systems can be designed to conform to ANSI/ESD S20.20-2007 standards.

Sika… One Name. One Source. Worldwide.

Responsible Care® Good Chemistry at Work

BSI ISO 9000:2000

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