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 Flooring Systems.

- *Outstanding static control throughout entire flooring thickness*
- *Absolute performance and aesthetic versatility for the most demanding applications; may be applied over concrete, vinyl tile or existing polymers*
- *Easy maintenance; low cost, quick, one-coat repairability*
- *Low VOC systems*
- *Proprietary, patented technologies developed by ESD flooring experts*

Sika®

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 Slurries & Resurfacers

For areas that are too rough for a thin-film coating but have not deteriorated to the point where a heavy-duty floor resurfacer is needed to repair them, Sika offers Sikafloor ESD Slurry Systems. Sikafloor ESD Resurfacers are formulated for badly damaged concrete or areas exposed to high abuse, and maintain their electrical properties through the entire thickness of the system.

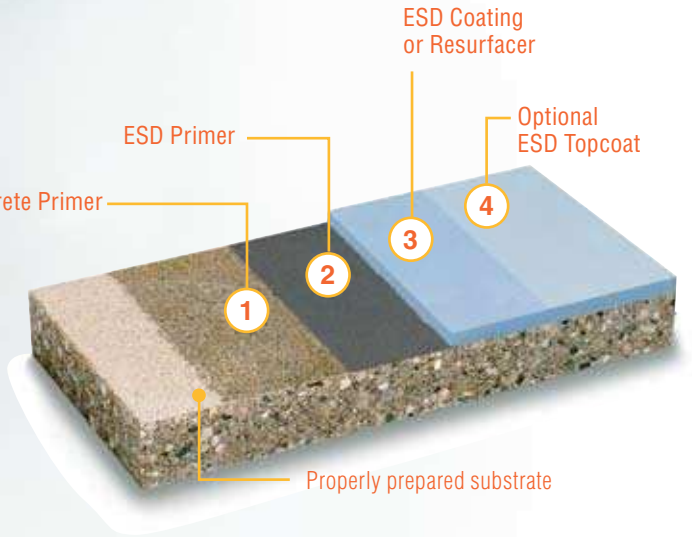
Sikafloor® ESD Coatings

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. Decorative ESD systems are also available; please contact your Sikafloor representative for details.

Sikafloor® Chemical Resistant ESD Coatings

Our epoxy novolac 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.

Typical Sikafloor® ESD 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 flooring systems are qualified through a series of resistance tests:

POINT-TO-POINT RESISTANCE
Sikafloor ESD Control Flooring's surface is consistent on all points tested, with no hot or cold spots. (ANSI/ESD S7.1-2005)

POINT-TO-GROUND RESISTANCE
Sikafloor ESD Control Flooring's point-to-ground resistance is consistent throughout the entire surface. (ANSI/ESD S7.1-2005)

BODY VOLTAGE DECAY (BVD)
Measuring how fast a floor drains off an electrical charge from a person or object, a Sikafloor ESD floor BVD shows drain-off from 5000 to as low as 0 volts in less than 1/10 second at 72°F with relative humidity of just 12%. (ANSI/ESD STM97.2-2006)

BODY VOLTAGE GENERATION (BVG)
Static charges that build up on people when they walk across a floor are measured by BVG tests. Sikafloor ESD Control Coatings typically produce BVG as low as 15 volts and are unaffected by relative humidity. (ANSI/ESD STM97.2-2006)

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.

CHOOSING YOUR FLOOR
Important Factors to Consider

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

- **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. If special waxes or floor finishes are required to maintain the ESD floor, they may be creating problems rather than solving them. The cost of the materials, coating application and periodic stripping 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	Sky Gray	Light Gray	Medium Gray
ESD 451	*ESD 100*	*ESD 122*	*ESD 124*
Dark Gray	**Beige**	**Tan**	**Brick Red**
ESD 126	*ESD 248*	*ESD 251*	*ESD 332*

Because of the limitations of process color printing, the color samples contained herein 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

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 the EOS/ESD Association 7.1 Standard Characterization of Floor Materials.*

All Sikafloor ESD flooring systems can be designed to conform to ANSI/ESDS20.20-2007 standards.

Sika... One Name. One Source. Worldwide.

Responsible Care® Good Chemistry at Work

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