

# ELECTRONICS



ESD ANTISTATIC FLOORS FOR  
ELECTRONICS AND ATEX AREAS

**Prima**  
PAVIMENTI SPECIALI

Electromechanical and electronics industry  
Chemical and pharmaceutical industry  
Aerospace industry  
Medical and industrial gas manufacturing industry  
Textile and petrochemical industry  
Explosives manufacturing industry  
Fireworks manufacturing industry  
Flammable warehouses  
Laboratories with electronic equipment  
Operating and diagnostic imaging rooms  
Cleanrooms and sterile environments

## BENEFITS

CONTINUOUS SURFACES  
CORROSION RESISTANCE  
SLIP RESISTANCE  
THERMAL RESISTANCE  
FIRE RESISTANCE  
ANTI-DUST  
CERTIFIED SOLUTIONS  
AST/ESD  
ECO-SUSTAINABLE SOLUTIONS

## DESIGN STAGE

In challenging environments, it must meet the needs of each activity, ensuring surface continuity, increased resistance and avoiding the accumulation of dirt and dust, factors that facilitate ESD (electrostatic discharge) phenomena.

Our structured approach is based on over 40 years of experience in the flooring sector – certified sustainable solutions and the know-how of listening to our customers to always provide the right answer to every need.

ACQUIRED **KNOW-HOW** IS EXPRESSED  
IN THE EFFECTIVENESS  
OF THE PROPOSED **SOLUTIONS**

## SAFE AND LASTING CHOICES

### FLOOR EVALUATION

The overall floor structure and each of its components (foundations, subfloors, screeds, industrial floors, and finishes) are complementary and work together to provide the performance and durability required for the specific activity.

### FEATURES AND DETAILS

Evaluating all aspects, whether complex sites or a single client, type of business and requirements.

### COST EVALUATION

Preparation of surfaces before receiving a new resin coating. Suitable resin solutions and performance.

More: joints, signage.

### CHOICE OF RESIN COATING

A dedicated solution for each area of the plant. High resistance to abrasion and impact, compression, and mechanical stress. Breathability is necessary in the case of existing floors without a vapor barrier and/or with rising damp. AST/ESD solutions for fire and explosion-risk areas.

### CONTINUOUS JOINTLESS SURFACES

High flatness with limited joints to avoid dirt accumulation. Dustproof.

### GUARANTEES

Trustee applicator and durability warranties. Certified and reliable solutions for surface protection.

### LIFESPAN

The life expectancy of a surface finish is determined by a combination of mechanical, chemical, thermal shock, and wear stress. These stresses are typical and different for each environment. Durable flooring refers to flooring that lasts for a long time without deterioration or loss of performance.

### SHORT INSTALLATION TIME

Very fast installation time, application on existing floors with considerable time and cost savings.

### SUSTAINABILITY

We use solutions that meet the highest standards of health and well-being. All floor coverings are low emission (VOC free) and meet the stringent parameters of the German AgBB standard.

### EXPERIENCE

For over 40 years, we have been in charge of the floors of the largest chemical-pharma industries in the country.

### MAINTENANCE

Resin systems ensure durability and avoid high maintenance costs. Scheduled and targeted cleaning is required to maintain performance.

### LEED

The resin system or polyurethane cement coating used includes a LEED® information statement detailing how it can contribute to the building's LEED credits.



**QUALITY IS VISIBLE  
AND 100% CERTIFIED**



# SOLUTIONS

CONDUCTIVE  
DISSIPATIVE  
ANTISTATIC

## SAFE AND LASTING CHOICES

To protect equipment, the environment, and people, resin flooring in the electronics industry must meet particularly stringent requirements and regulations.

Effective protection against potential damage caused by electrostatic discharges is provided by **ESD protected areas, known as EPAs (Electrostatic Protected Areas)**. Within these areas, special precautions are taken to handle ESD-sensitive components safely.

ESD does not represent a risk to humans, but it can be dangerous in electronics manufacturing, causing total failure or hidden defects in electronic equipment, resulting in complaints, repair or replacement costs, loss of customers, and damage to the reputation of manufacturing companies.

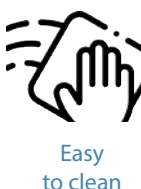
It has been calculated that around 300 volts of ESD is enough to damage or destroy an electronic device and that a person walking alone can generate up to 3000 volts. It is therefore necessary to have a floor that can dissipate electrostatic charges quickly and effectively.

**The ATEX zone (an acronym for ATmosphères EXplosibles, i.e. 'explosive atmosphere')** or classified zone is a physical volume part of a plant or work area in which the presence of a potentially explosive atmosphere has been assessed, in which flammable substances in the form of vapours, gases, mists or dusts are present with air under certain atmospheric conditions and in which possible combustion may cause deflagration.

An 'explosive atmosphere' is also defined as an atmosphere which may become explosive due to local or operational conditions.

Floor coverings in ATEX areas are of the utmost importance to prevent ignition, that is the accumulation of electrostatic charges that could lead to sparking. Simply walking on the floor is more than enough to form the ignition if the flooring does not have adequate antistatic dispersive characteristics.

SAFETY IN COMPLIANCE  
WITH STANDARDS



# CERTIFIED SYSTEMS

## SELF-LEVELLING CONDUCTIVE

The conductive antistatic self-levelling coating is the ideal solution for surfaces subject to the transit of electronic equipment, where surface charge dissipation is required.

This flooring is laid by embedding a network of copper strips in the coating, which are then connected to the grounding system, to create an antistatic surface.

The resins used in process have a higher electrical conductivity, to make the surface antistatic. After the resin coating has been laid, control tests are carried out to check its correct conductivity.

Thickness between 2 and 4 mm

### INTENDED USE

Electronic Industries  
Transit aisles  
Automated laboratories and warehouses  
Cleanrooms and hospital areas  
Production departments

### TECHNICAL FEATURES

Waterproof  
Anti-static  
Dust-proof and glossy  
High wear resistance  
High chemical resistance  
Easy to wash and sanitize  
VOC free  
Bfl-s1 fire rating

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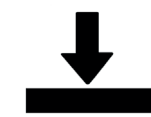
High resistance  
to loads



High chemical  
resistance



Non-slip



High resistance  
to compression



Easy  
to clean

# CERTIFIED SYSTEMS

## SELF-LEVELLING DISSIPATIVES

The antistatic, dissipative, self-levelling coating is used as an electrically dissipative coating for concrete substrates and cementitious screeds, even those subjected to medium traffic.

It has good chemical and mechanical resistance. It is impermeable and resistant to oils, greases, soaps and hydrocarbons.

According to current standards for passive protection against electrostatic discharges, the floor, when used as a primary earthing system, must be able to dissipate electrostatic charges present on its surface or with which it comes into contact.

Thickness 2 - 3 mm

### INTENDED USE

Electronics industry  
Production departments of pharmaceutical industries  
Laboratories and cleanrooms  
Automotive and aerospace industries  
Warehouses of flammable substances  
Industries with electronic and robotic handling  
Electronic data processing rooms  
Military installations with electronic equipment, radars.

### TECHNICAL FEATURES

Waterproof  
Good chemical and mechanical resistance  
Resistance to oils, greases, soaps and hydrocarbons  
Dustproof finish  
Easy to wash and sanitize  
VOC free  
Fire resistance class Bfl-s1

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Non-slip



High resistance  
to compression



High resistance  
to loads



High chemical  
resistance



Easy  
to clean

# CERTIFIED SYSTEMS

The antistatic polyurethane self-levelling coating is a crack-bridging, glossy comfort floor. It is antistatic and AgBB-certified low emission.

Resistant to a wide range of aggressive chemicals, it is much more durable.

Thickness 2 - 3 mm

## INTENDED USE

Industrial ATEX zones  
Solvent and fuel storing  
Explosives manufacturing and storing  
Storing flammable materials  
Thermo-nuclear power stations  
Cleanrooms

## TECHNICAL FEATURES

Waterproof  
Anti-static  
High crack bridging  
High wear resistance  
High level of resistance to chemicals  
Decontaminable  
VOC free  
Bfl-s1 fire rating

# SELF-LEVELLING ANTI-STATIC POLYURETHANE

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# CASE HISTORY

Our industrial know-how and expertise in this field, our partnerships as well as recognized qualities over the years, have allowed us to become a major player in this sector.

The best calling card is the flooring we have realised. In Italy, in Europe and, in the rest of the world.

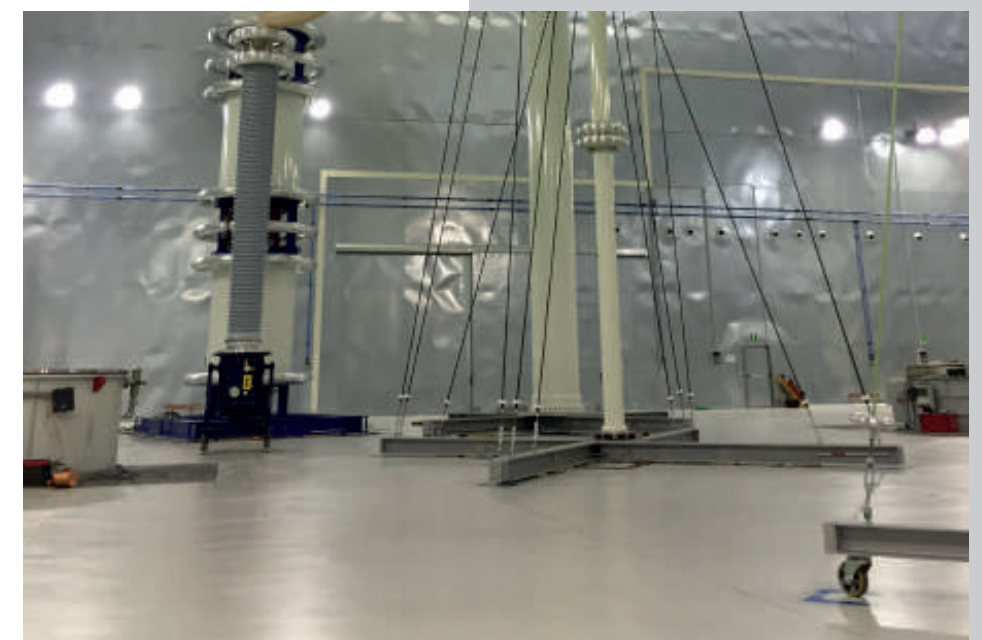


SOME OF  
OUR CUSTOMERS

STMicroelectronics  
Agrate Brianza (MB)  
Italy



Alstom  
Sesto San Giovanni (MI)  
Italy



MEMC  
Novara (NO)





# CONTACTS

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## Switzerland

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### CERTIFICAZIONI



OS 6 Classe IV  
OS 26 Classe IV  
OG 1 Classe III  
OG 3 Classe II

### COMPAGNIA ASSICURATIVA



### ASSOCIAZIONI



# PARTNERS

### APPLICATORI FIDUCIARI



### PARTNER

