

ELECTRONICS



ESD ANTISTATIC FLOORS FOR
ELECTRONICS AND ATEX AREAS

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WHERE

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

Trustworthy 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

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SOLUTIONS

CONDUCTIVE
DISSIPATIVE
ANTISTATIC

SAFE AND LASTING CHOICES

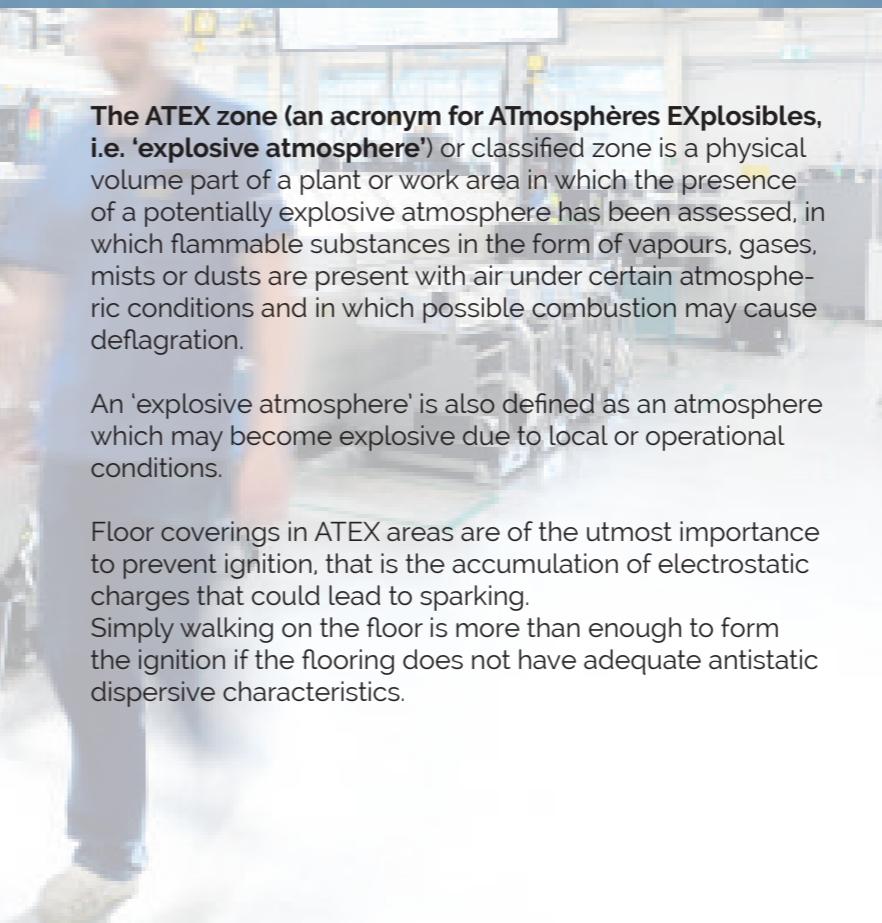
To protect equipment, the environment, and people, resin flooring in the electronics industry must meet particularly stringent requirements and regulations.

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.

SAFETY IN COMPLIANCE
WITH STANDARDS



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.

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CERTIFIED SYSTEMS



Impact
Resistance



Resistant
to acids and
oils



Non-slip



NO moisture
rising damp



Easy
to clean

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

SELF-LEVELLING CONDUCTIVE



High resistance
to loads



High chemical
resistance



Non-slip



High resistance
to compression



Easy
to clean

CERTIFIED SYSTEMS

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

SELF-LEVELLING DISSIPATIVES

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CERTIFIED SYSTEMS



Non-slip



High resistance
to compression



High resistance
to loads



High chemical
resistance



Easy
to clean

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.

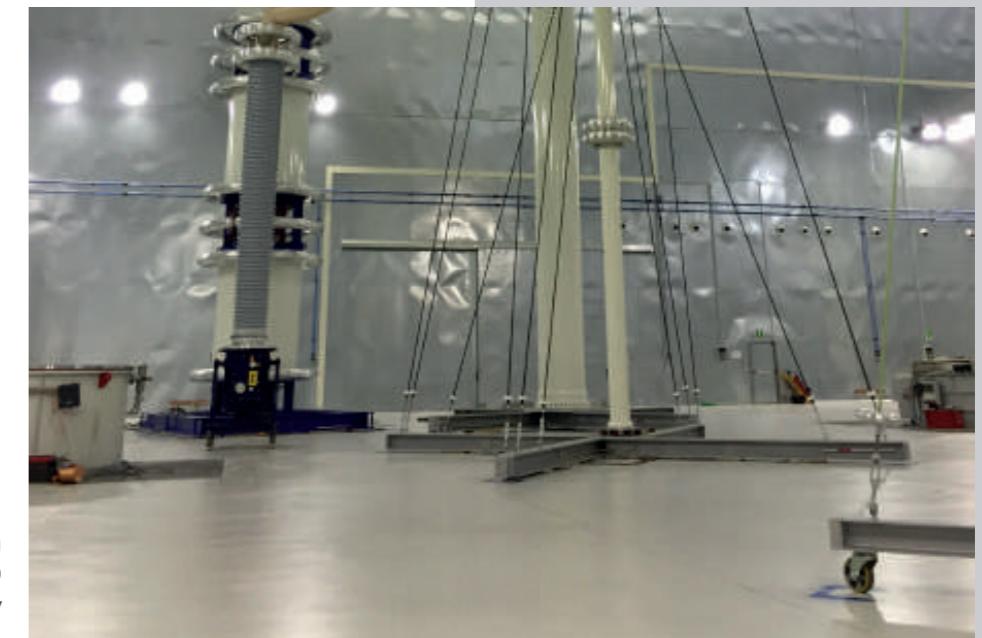
SOME OF
OUR CUSTOMERS



STMicroelectronics
Agrate Brianza (MB)
Italy



Alstom
Sesto San Giovanni (MI)
Italy



MEMC
Novara (NO)



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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



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