CLEANROOMS

RESIN FLOORING FOR CLEANROOMS AND CONTROLLED ENVIRONMENTS

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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

From electronics, automotive and food to pharmaceuticals and cosmetics, more and more products need to be manufactured and processed in sterile environments. Cleanroom production and high levels of component cleanliness are essential to achieving the desired product quality in many of these sectors.

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.

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

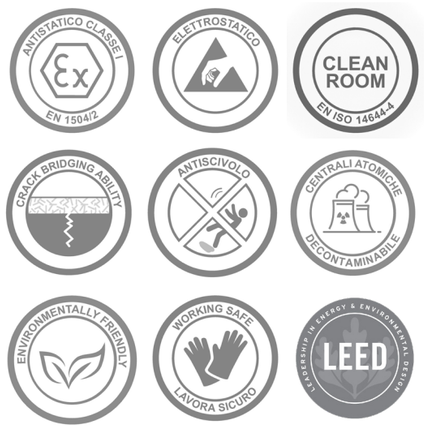
Macchinari di produzione in una camera bianca

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**



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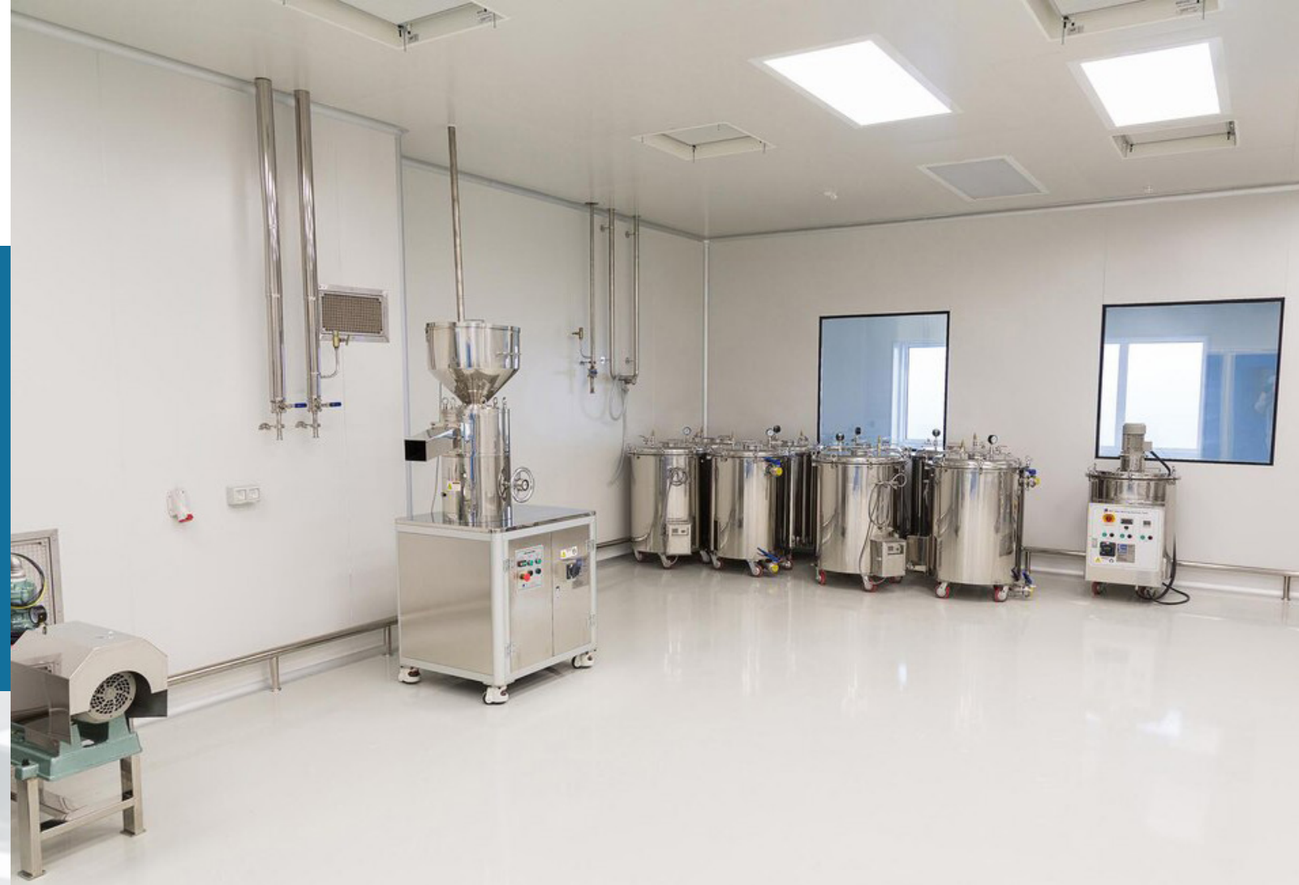
SOLUTIONS



SAFE AND LASTING CHOICES

Advanced cleanroom solutions designed and certified for sterile environments, from the semiconductor and electronics industries to bio-industries or the healthcare and medical sectors. Able to meet the most stringent requirements and regulations to protect equipment, the environment and people.

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.

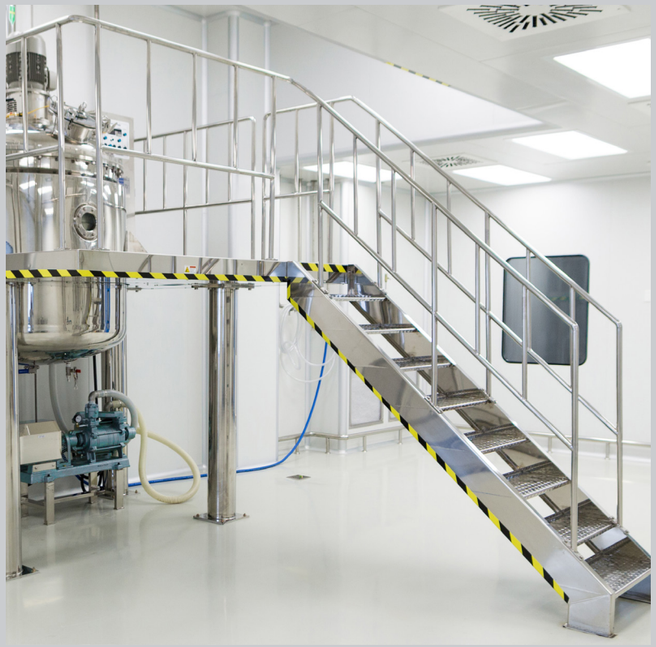
Floor coverings in ATEX areas are of the utmost importance to prevent ignition, that is the accumulation of electrostatic charges that could lead to sparking.
Simply walking on the floor is more than enough to form the ignition if the flooring does not have adequate antistatic dispersive characteristics.

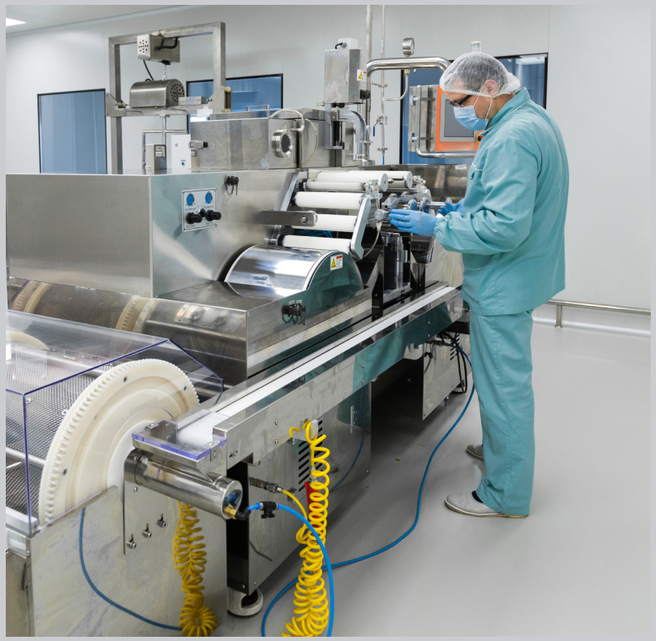
The main features of a cleanroom resin floor are:

- continuous antibacterial surface
- high resistance to compression
- very high wear resistance
- very high chemical resistance
- possibility of covering existing floors without total demolition or high demolition costs
- fast installation and use times
- clean room decontamination compliant
- fire reaction class Bfl-S1.

Resin flooring is one of the most commonly chosen solutions for cleanrooms due to its properties, speed of installation and quick time to use.

SAFETY IN COMPLIANCE WITH STANDARDS





Non-slip

Impact
Resistance

High resistance
to loads

High chemical
resistance

Easy
to clean

CERTIFIED SYSTEMS

SELF-LEVELLING EPOXY

Typically used in chemical and pharmaceutical industries in areas subject to high hygiene requirements, but also in showrooms, stores, storage and production areas.

INTENDED USE

Transit corridors
Mechanised laboratories and storage facilities
Industrial cleanrooms
Pharmaceutical clean rooms
Sterile environments

TECHNICAL FEATURES

Low indoor emissions AgBB certified
Resistant to impact, abrasion and heavy traffic
Resistant to chemical attack from hydrocarbons, mineral oils, salts and a wide range of dilute bases and acids
Jointless continuous systems
They make it easier and simpler to clean and they improve the general comfort of the environment.
They do not provide an environment in which bacteria can grow;
HACCP compliant
Option of antibacterial floors with silver nanoparticles.
Certified as a decontaminable floor covering for use in nuclear power plants (Cs-137, Co-60).

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Non-slip

Resistente
agli urti

High resistance
to loads

High chemical
resistance

Easy
to clean

CERTIFIED SYSTEMS

SELF-LEVELLING ANTI-STATIC POLYURETHANE

They are used in many industrial sectors in ESD areas where it's necessary to protect electronic devices from electrostatic events according to CEI EN 61340-5-1 (Protection of Electronic Devices from Electrostatic Phenomena) and in all those environments identified by EPA symbols (Electro Static Discharge Protected Area).

INTENDED USE

Electronics, automotive and aerospace industries
Pharmaceutical production departments
Operating theatres
Laboratories and clean rooms
Storage of flammable substances
Industries with electronic and robotic handling
Electronic data processing rooms
Military installations with electronic equipment, radar

TECHNICAL FEATURES

Jointless continuous systems
EN ISO 14644-4 clean room certified
Antistatic properties: Class I dissipative resistance according to UNI EN 1504/2 (104 ≤ R ≤ 106) for explosive materials
ESD (Electro Static Discharge) certified according to CEI EN 61340
Crack bridging ability: ability to bridge cracks
Certified for use in nuclear plants
Complies with the clean room decontamination process
Option of antibacterial flooring with silver nanoparticles
Free of VOCs, AgBB certified for low emissions in indoor working environments
Monolithic adhesion to substrate
Waterproof and non-slip
Highly abrasion and impact resistant
Fire reaction class Bfl-S1

ACCESSORIES
Floor signage

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High chemical resistance

Easy to clean

CERTIFIED SYSTEMS

CLEANROOM POLIURETHANE WALL PAINTINGS

Polyurethane wallcoverings are the result of the need to find an integrated range of products and services to meet the various requirements of sterile environments and cleanrooms, functional and durable.

The coating guarantees aseptic conditions for wall and ceiling surfaces and active, long-lasting protection against the formation of mould, fungi and micro-organisms; in addition, thanks to the silver particles present, a permanent bactericidal effect is achieved.

TECHNICAL FEATURES

Bacteriostatic
Chemical resistance
Impact resistance - medium to low
Hygienic and easy to clean
Perfect harmony between floor and wall finishes, customisable
VOC free
UV resistant

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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

ITINERA · ALSTOM · STMicroelectronics · LEONARDO FINMECCANICA · AgustaWestland A Finmeccanica Company · webuild · AVON · SCHERING making medicine work · BNP PARIBAS · RIZZANI DE ECCHER · BRENNTAG · ButanGas Dragan Group since 1948 · MENARINI group · I.R.C.C.S. Ospedale San Raffaele · I.R.C.C.S. Policlinico San Donato Gruppo San Donato · OSPEDALE NIGUARDA CA' GRANDA · IMPRESA PERCASSI · PIZZAROTTI SINCE 1910 · I.R.C.C.S. ISTITUTO ORTOPEDICO GALEAZZI · Italchimica · COLOMBO COSTRUZIONI · SST Azienda USL Toscana nord ovest Servizio Sanitario della Toscana

Hospital technical environment

Rooms and sterile environments

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AXA

U.S. GREEN BUILDING COUNCIL

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

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