



Life Sciences Environments

CONTAMINATION CONTROL FLOORING YOU CAN **TRUST**



FOOT



WHEEL



AIR

www.dycemusa.com

Dycem DECONTAMINATION

INSTALLATION DATE
REPLACEMENT DUE

10-2011

06-2012

80%

**OF CONTAMINATION
ENTERING YOUR CRITICAL
ENVIRONMENT DOES SO
ON FEET OR WHEELS**

THE SOLUTION - REDUCE THE RISK WITH **CONTAMINATION CONTROL MATS AND FLOORING**

Dycem manufactures a technically sound and proven contamination control solution. Dycem's polymeric mats and flooring can capture and retain up to 99.9% of both foot and wheel-borne contamination and up to 75% of airborne contamination. All Dycem solutions contain a silver anti-microbial, Biomaster, proven to reduce the growth of harmful bacteria such as Campylobacter, MRSA, E.Coli, Listeria, Salmonella and many others.

99.9%

PROTECTION

The most effective solution available, trapping up to 99.9% of foot and wheelborne particulates.



WHEELED TRAFFIC

The only solution for heavy wheeled traffic areas.



ANTI-MICROBIAL

Biomaster silver ion protects against over 20+ different organisms.



SIZE

Dycem allows for a minimum of six foot falls or three wheel rotations, which is required for 99.9% decontamination.



ENVIRONMENTAL

Dycem significantly reduces the amount of waste usually generated from tacky mats.



AUDITING

Dycem is included in Standard Operating Procedures (SOPs) & meets requirements of regulatory bodies.



PARTICLE RETENTION

The polymeric surface attracts, collects and retains particles and is easy to clean.



PERFORMANCE

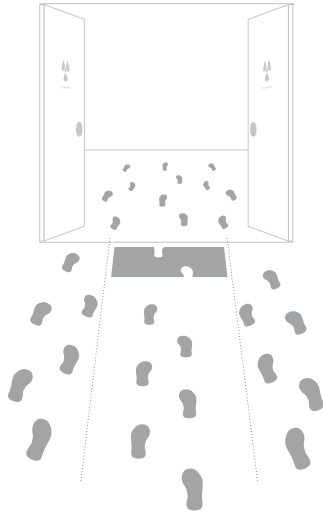
Dycem performance is maintained even after several overstrikes.



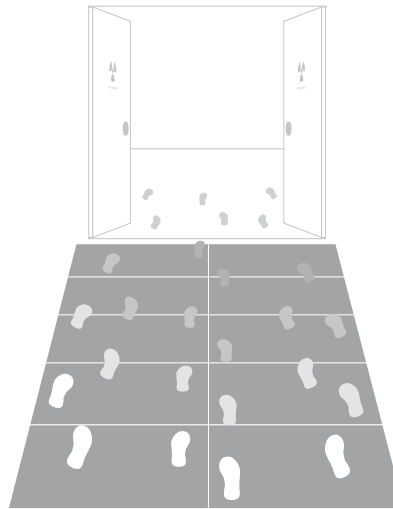
WARRANTY

All products are warranted for 12 months subject to normal usage wear and tear.

The average 4' x 2' sized peel-off mats are far too small. By using a single peel-off mat, only 27% of contamination will be removed prior to entering the controlled or critical area.



73%
CONTAMINATION
ENTERING
CRITICAL
ENVIRONMENT



20%
CONTAMINATION
ENTERING
CRITICAL
ENVIRONMENT



<0.01%
CONTAMINATION
ENTERING
CRITICAL
ENVIRONMENT

Dycem's larger surface area and polymeric construction allows for **six footsteps and three full wheel rotations**, resulting in **up to 99.9% of particles** being captured.



Cobalt/CO



Titanium/TT



Midnight/MN



Slate/SL



Green/GN



Red/RD

CLEANZONE

FOR PEDESTRIAN AND LIGHT WHEELED TRAFFIC

Dycem Cleanzone is a semi-permanently installed, high performance mat or flooring. Cleanzone comes in custom shapes and sizes and is available in a range of attractive colors and edgings.

WHERE TO USE

- All pedestrian entrances to critical areas to prevent ingress of contamination
- All pedestrian exits to prevent contamination leaving the critical area
- Inside airlocks, gowning rooms, and air showers to control and retain contamination
- In hallways to prevent cross contamination
- Inside the critical area adjacent to critical products and processes

BENEFITS

- **Reduced floor** (up to 99.9%) and **air particulate** (up to 75%) counts in controlled or critical areas
- **Long lasting, cost effective** solution compared with peel-off mats and other alternatives
- **Reduced microbial counts** due to Biomaster, a high performance anti-microbial additive in all Dycem products
- **Easy to clean**, maintain, and incorporate into existing Standard Operating Procedures (SOP's)
- Dycem products cannot be bypassed and **require no overt action**

WORKZONE

FOR LARGE CARTS, PALLET TRUCKS AND FORK LIFTS

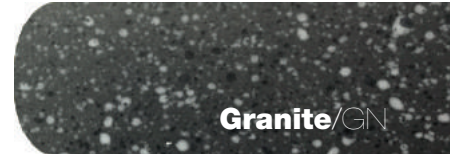
Dycem Workzone has been specially designed to remove contamination from wheeled traffic, including forklifts, pallet trucks, and large carts, preventing particles and microbes from getting into your critical areas. A heavy duty edging option provides further protection.

WHERE TO USE

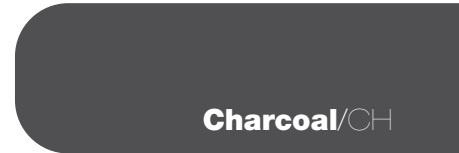
- All material entrances to critical areas to prevent ingress of contamination from wheels
- All material exits to prevent contamination leaving the critical area
- Inside airlocks, warehouses, and product transfer areas to control and retain contamination
- In hallways to prevent cross contamination
- Inside the critical area adjacent to critical products and processes

BENEFITS

- **Reduced floor** (up to 99.9%) and **air particulate** (up to 75%) counts in controlled or critical areas
- ONLY effective solution for **wheeled traffic**
- **Large sizes available** to ensure enough wheel rotations allowing for maximum decontamination
- **Easy to clean**, maintain, and incorporate into existing Standard Operating Procedures (SOP's)



Granite/GN



Charcoal/CH

We produce less permanent flooring solutions, should you need the flexibility to be able to move the flooring - visit

www.dycemusa.com

or speak to one of our experts to discuss the best option for you.



REDUCE THE RISK

Dycem mats and flooring are scientifically proven to reduce up to 99.9% of contamination entering your clean room or controlled environments by foot and or by wheels. The risk of viable particles ranging from 0.5 - 5.0 micron entering the above can be controlled by implementing fixed, washable solutions at entry/exits and airlocks for all pedestrian and wheel operations.

Yielding an average three year life cycle and embedded with Biomaster silver antimicrobial ion, Dycem can support the following industries with particulate and microbial control:

Pharmaceutical + Biotechnology

Medical Device

Hospital + Healthcare

Biomedical



Pharmaceutical + Biotechnology

Case Study: A Pharmaceutical Company USA

This organization is committed to advancing oncology care by developing a portfolio of targeted biologic treatments designed to address the medical needs of patients with a variety of cancers. Dycem CZ02 WorkZone is used in their main corridor in the manufacturing area class 10,000 that leads into the production areas as prevention of contamination and cross contamination in their manufacturing. They have also implemented Dycem in their material airlock leading into manufacturing. No pedestrian or wheeled traffic enters the manufacturing areas without contact with Dycem flooring.

Case Study: Merck USA

Merck in West Point, PA has been utilizing Dycem since 2007. One of the Dycem installations of CZ01 CleanZone was in Building 12 at the West Point campus; which is the largest pharmaceutical plant for Merck in the US where vaccines are manufactured. Dycem improved their overall appearance, reduced the cleaning process and reduced the contamination issues inside of airlocks, entry and inside manufacturing area.



Medical Device

Case Study: Micronit Netherlands

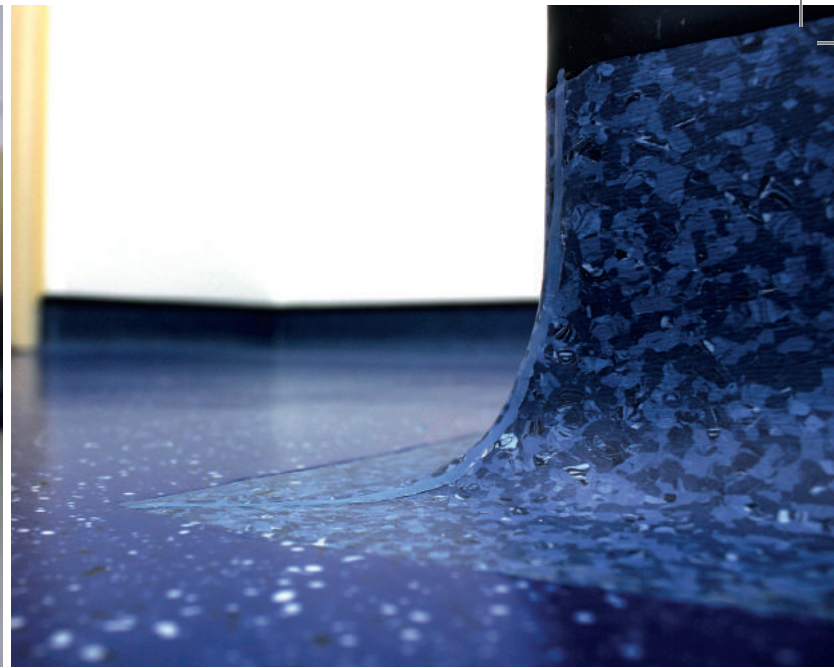
Micronit Microfluidics has been manufacturing glass-based lab-on-a-chip products for more than ten years. They have extensive experience in micromachining and microfluidics and is a key supplier of microfluidic devices to life sciences and chemistry markets. Dycem CleanZone was implemented in place of their tacky mats which prevented the ingress of 99.9% of contamination entering their critical areas. In the facilities changing booth, a two-toned system was created and installed wall-to-wall to ensure the Z-Effect traffic flow was contained. The two-toned system creates a simple protocol – offering a visible barrier between the dirty and clean side.



Case Study: BBraun Poland

Dycem was approached by the quality department at BBraun Poland in search of a sustainable replacement for their peel-off mat usage in wheeled traffic areas. The site generated large dust particles and through their intensive work with small components the need to control contamination at both floor and bench level was identified as a crucial investment.

BBraun installed several large areas of Workzone at their warehouse entry points to production. These were large enough to cover traffic directional flows. Being low profile, they provided easy access for the manual forklifts that operated here.



Hospital + Healthcare

Case Study: Hospital Virgin Del Camino Spain

This hospital has specialties including; maxillofacial surgery, plastic surgery, pediatric surgery, pediatrics, neonatology, obstetricians and gynecologists, prenatal diagnosis, pediatric ICU, medical genetics and clinical neurophysiology. Due to some of the specialties based at this hospital, Dycem Workzone was implemented in order to help protect critical environments, such as laboratories and operating rooms from harmful particulates and microorganisms. Dycem has been installed for many years and continues to be an asset to the hospital.

Case Study: NHS Velindre Hospital UK

NHS Velindre Hospital (Aseptic Unit) has been using Dycem for the last 13 years. Before this time peel-off mats were used as a solution to limit contamination control, however microbial counts continued to exceed maximum limits, so a change to Dycem was agreed and microbial counts subsequently decreased. Martin Rees-Milton, principal pharmacist, has stated, "the finish with the Dycem inlaid into the vinyl is excellent. With large amounts of traffic within the aseptic unit, the flooring system ensures a consistent grade C/D environment."



Biomedical

Case Study: Novartis Germany

Research into a number of areas including cardiovascular and metabolic diseases, infectious diseases, epigenetic, plus many more, Novartis required a solution to help control contamination within their main corridor, outside the lift area. This area was the main entrance/exit to a number of critical areas within the facility and with a full covering of Dycem within the area, contamination was vastly reduced due to the ability to allow 6 footsteps and 3 full wheel rotations for 99.9% decontamination.



Case Study: A Biomedical University Puerto Rico

This facility began with using Dycem systems as a trial at their facilities; engineering and maintenance personnel were very impressed with its initial performance. One year after the trial it was decided to implement Dycem systems throughout their whole site. This facility replaced their peel off mats and wanted to invest in a reusable system to eliminate the waste of material (from peel-off mats). This change in direction was also to coincide with this facility's green initiative project.



THE DYCEM DIFFERENCE

Get started today

"Independent tests carried out at GlaxoSmithKline prove that Dycem High Performance Contamination Control Zones prevent over 99% of all viable and non-viable foot and wheel borne contamination from entering a critical area."

Dr Caroline Clibbon, Senior Microbiologist, GlaxoSmithKline, UK

"Polymeric flooring is very effective in the control of viable, biologically active, particulate under circumstances where peel-off mats can be almost totally ineffective"

Gerry Prout, Kennet Bioservices Ltd, Stratton St Margaret, Wiltshire, UK

- **On-site consultation and product demonstration** to assess your contamination control needs (samples and supporting literature provided).
- **A site survey report** identifying which Dycem products best suit your needs and operating budget.
- **Full installation** by a Dycem trained technician (including a cleaning demonstration for your operatives).
- **Comprehensive warranty and service options** ensuring you are covered for the life cycle of your product.

Call Dycem today for a **FREE** sample or site survey

DISCOVER HOW
DYCEM CAN PROTECT
YOUR BUSINESS

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*Dr Caroline Clibbon, Senior Microbiologist,
GlaxoSmithKline, UK*

"We have been using and testing Dycem in our Pharmacy, Sterile and Aseptic areas. The tests carried out have established the effectiveness of Dycem in controlling microbial contamination and potential cross contamination from feet and wheels."

Christina Lowe, Singleton Hospital, Swansea



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