



CONTAMINATION CONTROL SPECIALISTS

Microbial Environments

CONTAMINATION CONTROL FLOORING YOU CAN **TRUST**



THE SOLUTION – HIGH PERFORMANCE CONTAMINATION CONTROL TECHNOLOGY

The Dycem Cleanzone is the most effective, scientifically proven solution and provides a simple, long lasting and high performance method of minimising foot and wheel borne contamination. In independent tests carried out at GlaxoSmithKline it was proven that Dycem Cleanzones prevent up to **99.9% of all viable and non-viable** foot and wheel borne contamination from entering a critical area.



Dycem contamination control flooring solutions are manufactured with Biomaster (a silver antimicrobial) as an integral ingredient, providing effective and long-lasting antimicrobial protection.

Biomaster is proven to reduce the growth of harmful bacteria such as Campylobacter, MRSA, E.Coli, Listeria, Salmonella and many others by up to 99.9%.



PROTECTION

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



SIZE

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



PARTICLE RETENTION

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



WHEELED TRAFFIC

The only solution for heavy wheeled traffic areas.



ENVIRONMENTAL

Dycem CleanZones can be recycled into less critical applications at the end of their life-cycle.



PERFORMANCE

Dycem performance is maintained even after several overstrikes.



FLEXIBLE PAYMENT

Dycem schemes provide controllable and proven lower running costs.



AUDITING

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



WARRANTY

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

FACT

With every footstep and wheel rotation, contamination gradually builds up in layers.

Length for normal
traffic loads

Length for heavy
traffic loads

After 6 footfalls
or 3 wheel rotations

99.9%*
EFFECTIVE

After 4 footfalls
or 2 wheel rotations

50%*
EFFECTIVE

After 2 footfalls
or 1 wheel rotation

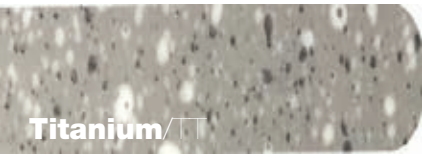
25%*
EFFECTIVE

Multiple steps on Dycem flooring are required to fully decontaminate your feet and wheels. Peel off mats do not have the surface area or ability to allow for multiple footsteps/wheel rotations to guarantee effective decontamination from the built up layers of contamination.

* Figures shown are 'up to' values based on optimum care and use



Cobalt/CO



Titanium/TI



Midnight/MIN



Slate/SL



Green/GN



Red/RD

CLEANZONE

FOR PEDESTRIAN & LIGHT WHEELED TRAFFIC

Dycem Cleanzone is a high performance contamination control zone suitable for light wheeled traffic and heavier pedestrian flows. Permanently installed, it is the most effective way of controlling all forms of foot, wheel and air borne contamination. Dycem Cleanzone is available in a range of attractive designs which means it still looks good between wet cleaning.

OPTIONS

Cleanzone has the flexibility to be installed into in a variety of different sized and shaped areas, it is accompanied by a number of edging system choices.

BENEFITS

- Prevents **up to 99.9% of contamination** from entering your critical area
- Reduced floor and air particle/microbial counts
- Improved yield, **cost savings** and profitability
- **Reduced risk** of high product rejection rates
- Dycem products cannot be bypassed and **require no overt action**
- Available in a range of low profile edging systems
- Coving and inlaid options available

WORKZONE

FOR LARGE TROLLEYS, PALLET TRUCKS & FORK LIFTS

Dycem Workzone has been specially designed to remove contamination from areas subject to heavy wheeled traffic. It effectively attracts, collects and retains contamination from the wheels of forklifts, pallet trucks, large trolleys and carts, preventing particles and microbes from getting into your critical areas.

OPTIONS

Workzone has the flexibility to be installed into in a variety of heavy duty areas, it is accompanied by either a heavy duty aluminium or low profile food grade stainless steel option.

BENEFITS

- Prevents **up to 99.9% of contamination** from entering your critical area
- It effectively **attracts, collects and retains contamination** from the wheels of forklifts, pallet trucks, large trolleys and carts
- **Large sizes available** to ensure maximum decontamination of wheels
- Comes complete with two different edging options: heavy duty aluminium edging or a lower profile stainless steel option
- Coving and inlaid options available
- Periodic replacement or **service contract available**
- Masking available - to hide contamination once on Dycem



Granite/GN



Charcoal/CH

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

www.dycem.com

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



WITH DYCEM SATISFACTION IS GUARANTEED

Our Dycem systems are scientifically proven to reduce 99.9% of the risk of microbial contaminants entering your critical cleanroom/controlled environments by foot and or by wheel.

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 supported by Biomaster agent, Dycem can support the following affected industries with microbial control:

Pharmaceutical

Food Hygiene

Hospital + Healthcare

Biomedical



Pharmaceutical

Case Study: Nitritex Malaysia

Nitritex Limited is a world leading manufacturer of disposable and durable Cleanroom consumables, designed to eliminate contamination and cross contamination risks and improve product yields in the Life Science, Micro-electronics and healthcare industries.

After consultation with Dycem's contamination control experts, contamination control flooring was placed strategically in two areas, the first being the viewing corridor outside ISO class 4 and 5 cleanrooms, and also in their changing area entering into an ISO class 6 cleanroom.



Case Study: Synoptis Industrial Poland

As Synoptis are a new facility, they were keen to implement Dycem as a proven solution to deal with Contamination Control.

Dycem Workzone has been installed in personel airlocks and surrounding areas. The client is very pleased with the result as now up to 99.9% of contamination is kept out of the critical areas.



Food Hygiene

Dycem contamination control solutions used within critical and controlled environments:

- Attracts, collects and retains particle sizes from 0.1 micron to 100 micron
- Reduces cross contamination and bioburden
- Manufactured as an optically smooth and flexible surface enabling maximum contact between shoes and wheels
- Dycem CleanZone/WorkZone systems typically have a product life cycle of between 1-5 years (depending on environment and traffic conditions)



Case Study: Ulleval University Hospital Kitchen Norway

Before Dycem, Ulleval used footbaths to help control contamination from entering the facilities, but it was decided that due to the expense of installation and maintenance of footbaths, another solution was needed.

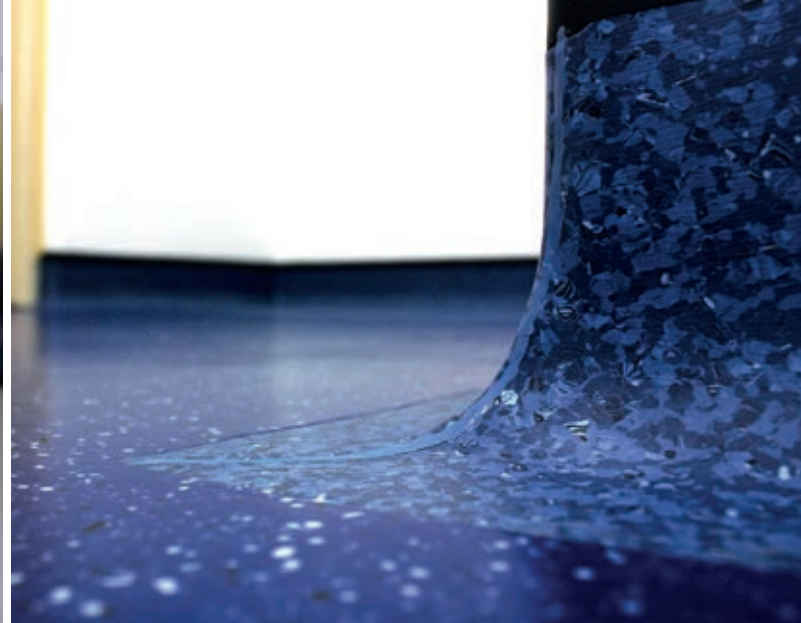
Dycem offered a comparably inexpensive, long-lasting, low maintenance solution that not only provided superior anti-microbial contamination control, but was a dry solution, thus improving health and safety within the kitchen environments.



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 theatres 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

Dycem contamination control solutions could be placed within your facility at a number of locations:

- Outside animal housing rooms (AHRs)
- Outside procedure labs
- Outside quarantine rooms (isolated AHRs)
- At barrier elements such as airlocks, air showers and supply docks
- In corridors connecting to other critical and controlled areas

Case Study: A Biomedical University

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.

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

"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*

"We have used Dycem for many years in our aseptic processing areas. We use it in transfer hatches (for wheels) and at entrances and exits to restrict the outside micro-organisms from getting into the facility."

David Cope, Kings College Hospital

"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

Dycem has an extensive library of studies written independently. Here are just a few:

An evaluation of the effectiveness of polymeric flooring compared with "peel-off" mats to reduce wheel- and foot borne contamination within cleanroom areas.

*Caroline Clibbon, Research Microbiologist at
GlaxoSmithKline, Ware, Hertfordshire, UK*

The nature and the environmental impact of control of floor level contamination.

*Gerry Prout, Kennet Bioservices Ltd, Swindon, Wiltshire,
UK*

Polymeric flooring demonstrates particle retention properties.

Dr. Geoffrey Barrett

An evaluation of polymeric flooring and its effectiveness in controlling airborne particles and microbes.

*Larry S Ranta, M-Con Technologies, Mission Viejo, CA
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