



# BERENDSEN CLEANROOM FLEXI MAT

CRITICAL CONTAMINATION CONTROL

Reduce the risk!

**“**

**Polymeric flooring is much more effective in controlling both viable and non-viable particles than peel-off mats.**

**”**

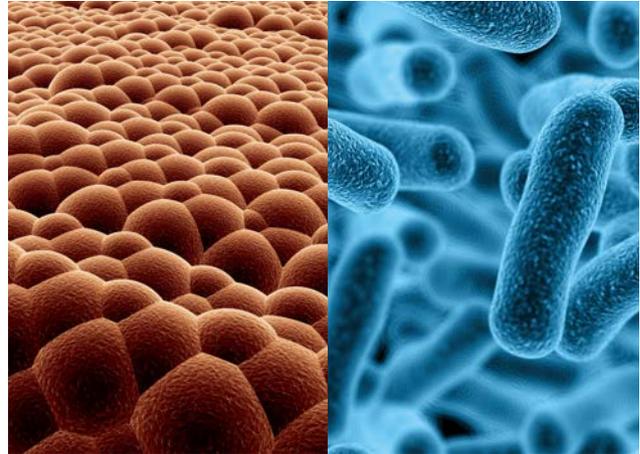
**Dr Caroline Clibbon,**  
GlaxoSmithKline, Ware, UK

# The invisible enemy

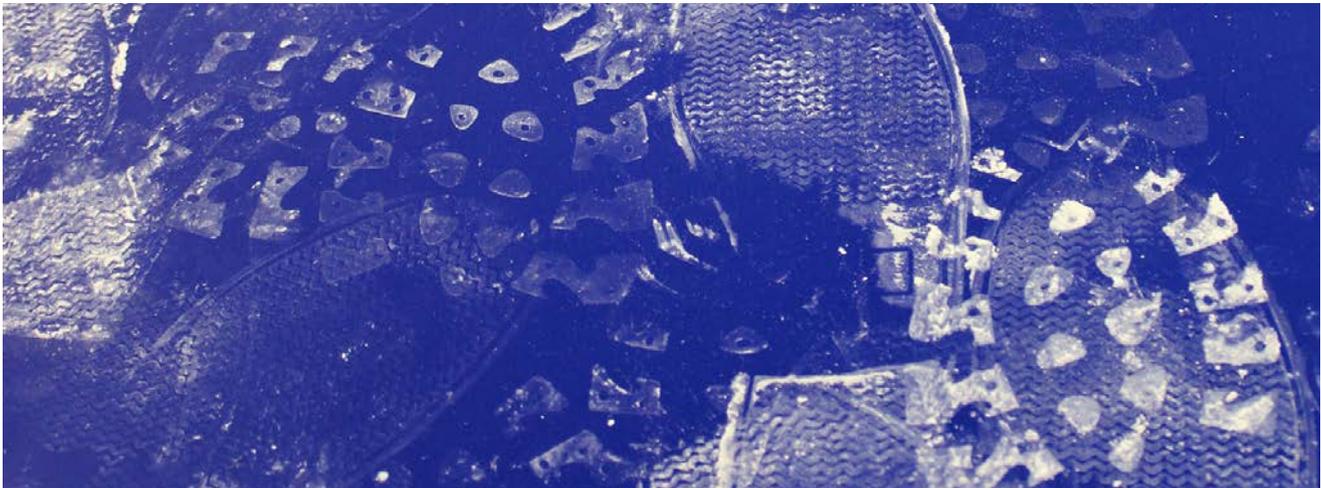
## **Contamination can be a costly problem**

Air, foot and wheel contamination in manufacturing, processing and changing areas can have an impact on many aspects of your business, interrupting production, reducing product yields and in serious cases, harm your reputation.

The focus for conventional contamination control is airborne and personnel movement – a real problem also lies at floor level so the need to control contamination here is vital.



Airborne particles such as spores or skin flakes can carry bacteria and severely contaminate your cleanroom.



# Choose the Berendsen Cleanroom Flexi Mat system for optimal contamination control

## Contamination control

Our high performance Cleanroom Flexi Mat system prevents up to 99.9% of foot and airborne contaminants from entering or exiting your critical control points.

The high surface energy attracts, collects and retains dirt, dust and bacteria between cleaning. This ensures that contamination from feet to your cleanroom or controlled environment is minimised.



Removal of peel-off mats generate turbulence in a cleanroom and spreads particles

## Flexibility

In order to minimise the risk of contamination in your critical areas, Berendsen Cleanroom Flexi Mat offers one proven visual solution to meet your control requirements when moving from one zone to another.

There are numerous relevant applications - all entry and exit points to critical areas to prevent ingress and egress of contamination and to stop the spread of potent compounds:

- Gowning rooms
- Step-over benches
- Pedestrian airlocks
- Material airlocks
- Air showers
- Laboratory entrances
- GMP corridors
- Work stations
- Isolation chambers

Berendsen Cleanroom Flexi Mats can be provided in various sizes and colours and can be custom-produced with your logo or other print.

## Security

The main purpose of the Cleanroom Flexi Mat is to control contamination in your critical areas. It also ensures that cross-contamination from personnel working in critical environments is minimised.

Mats can be useful in visualising distinction between contaminated and clean zones.

Unlike peel-off mats, the Berendsen Cleanroom Flexi Mat is fixed to the floor on all sides and thus prevents avoidable accidents occurring.

Standard cleaning method of the mat is more ergonomically friendly for your employees – less movement and bending over.

# Easy installation and cleaning



## Best practice

We can either install your Cleanroom Mat or you can use the easy to follow instructions.

Clean the area where the Flexi Mat is to be placed by using the wipes provided.

Easy-peel adhesive tape on all sides ensures secure fitting.

Clean the Flexi Mat at least once a day depending on footfall to maximise its efficiency.

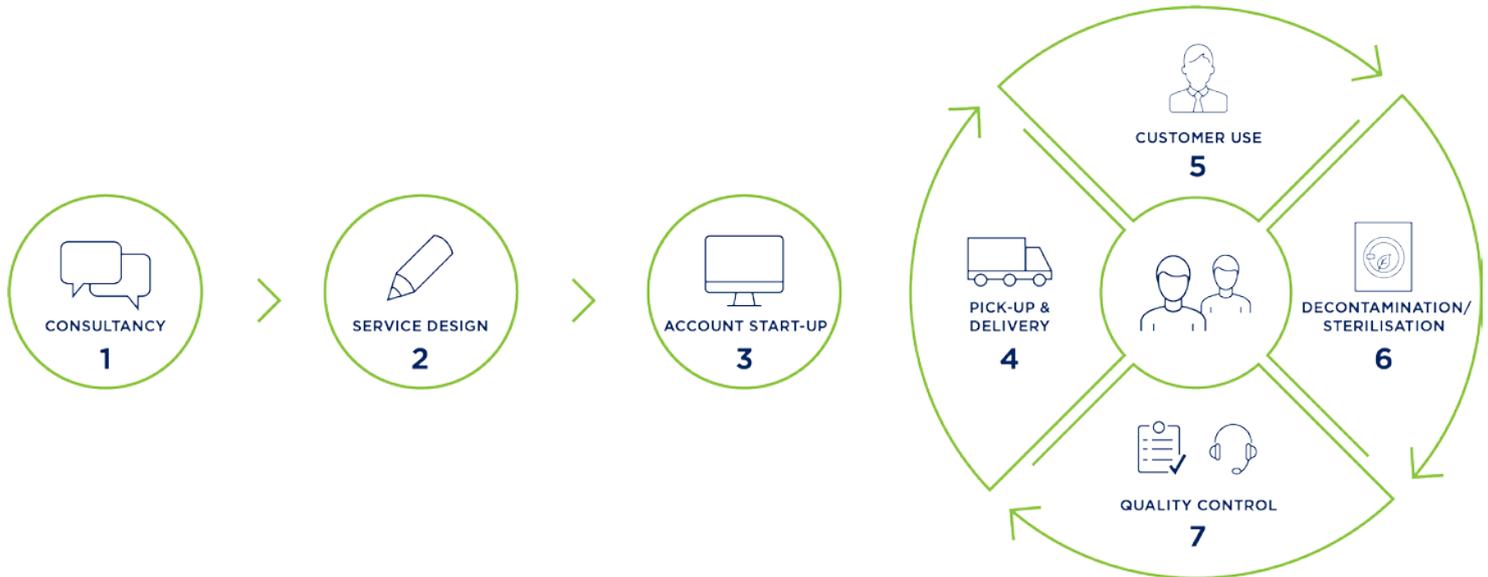
We advise using the Berendsen squeegee and MicronSwep™ system and 200ml of liquid for a 50cm mop.



# How the service works

## Trust us to take care of the whole service process:

- We will analyse your needs and suggest an optimal mat solution for your premises
- Systematically install new Cleanroom Flexi Mats at your preferred time interval and collect the used ones
- Perform continuous quality checks the mats to ensure effective contamination control



# Better than other solutions

Comparisons	Flexi Mat	Using Nothing	Peel-off Mats	Foot Baths
99.9% effective in inhibiting foot contamination	✓	✗	✗	✗
75% of airbourne contaminants are captured on the mat	✓	✗	✗	✗
Prevents the redistribution of particles back into the atmosphere - contamination is retained on the mat before being cleaned away	✓	✗	✗	✗
The anti-microbial elements capture and inhibit the growth of bugs in citical areas	✓	✗	✗	✗
Large surface area to allow for multiple footsteps - you ensure 99,99% decontaminated footwear	✓	✗	✗	✓
High surface energy meaning particles are retained on the mat	✓	✗	✓	✗
Adhesive free so ensures you don't bring adhesives and particles from footwear into critical areas	✓	✓	✗	✓
No peeling of mats avoids the spread of particles	✓	✓	✗	✓

The Berendsen Cleanroom Flexi Mat outperforms its competition by trapping 99.9% of foot particulates.



Peel-off mats wrap around the wheels of trolleys and carts. This can create contamination of the cleanroom.



Berendsen Cleanroom Flexi Mat's unique polymeric surface is soft and supple conforming to shoe and wheel profiles and collecting particles between 0,1 and >100 microns.



Reduce total costs

# Optimal solution for your economy and environment

## Handling & waste control

Disposing of adhesive peel-off mats heavily laden with hazardous contaminants is a costly exercise. It is often done inconsistently and taking several peels each time.

In a service agreed with Berendsen, your Cleanroom Flexi Mat will be exchanged in a systematic way, e.g. every 3-6 months depending on footfall. The mat is easily placed by us or by you.

You also avoid the bad ergonomics and spreading of particles during peel-off. Berendsen Cleanroom Flexi Mats are easily integrated into your SOP and can be cleaned as part of your regular floor cleaning schedule.

The Berendsen Cleanroom Flexi Mat is an environmentally friendly solution supporting corporate social responsibility.

## Total solution

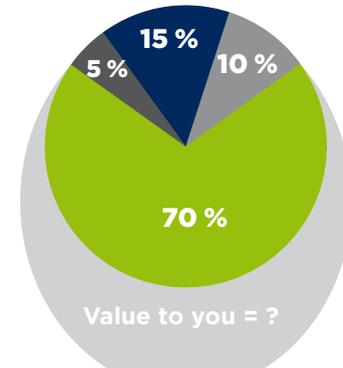
Berendsen Cleanroom Flexi Mat is a complete solution. Our team of contamination control experts ensure the best possible service in order to protect your critical environments.

This includes an in-depth site survey, consultation, control of systematic change and support. We take care of purchasing, administration, waste disposal and other costs that might arise, so you can focus on your core operations.

The Berendsen Cleanroom Flexi Mat system will ensure you high quality, cost effective and environmentally friendly solution.

## Estimate your current cost profile

- 70% Current purchasing costs, adding costs of multiple peels taken off by error of operator and/or carts
- 5% Cost of invested capital, bad CSR publicity due to extensive waste disposal
- 15% Cost of handling and waste disposal of peel-off mats - including "cost" of bad ergonomics
- 10% Administration costs - purchasing and stock handling (time spent and space used)



Contamination costs - contamination of your cleanroom is a separate risk with a value only you can estimate. Contamination comes from a.o. spreading of particles due to inconsistent peel-off. Contamination from adhesives from peel-offs getting into your cleanroom. Contamination by mats that are too small to ensure sufficient steps to retain particles.

## Focus on what you do best and let us handle the service

In addition to an outstanding service, we offer you savings in purchasing of mats, administration, waste handling and costs caused by contamination.

# Recommended cleaning system MicronSweep™



# MicronSweep™

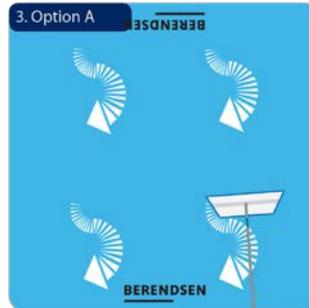
## Cleaning procedure Berendsen Cleanroom Flexi Mat



1. Clean the Cleanroom Flexi Mat at least once a day to maximise its efficiency. We advise using the MicronSweep System as per the following instruction.



2. Pre-moisturise your mop. Recommendation is 200ml liquid for a 50cm mop. Run the saturated mop over the mat in a smooth S-motion.



3. Option A Repeat the process using a dry mop, pushing away and collecting the excess dirty water.



3. Option B Using the Berendsen Squeegee, clean the Cleanroom Flexi mat in straight movements from the cleanest to the less clean area e.g. your changing area.



4. Remove the excess liquid or dirty water from the edge of the surface, and collect with the mop.

## TIPS & ADVICE

Clean at least once a day to improve cleaning efficiency, using either Option A or Option B:

### Option A:

- Sanitising solution to be diluted to manufacturers instructions
- Pre-saturated MicronSweep Mop
- Dry MicronSweep Mop
- Pre-moisturise your MicronSweep Mop with cleaning agent. The recommendation is 200ml liquid for a 50cm mop.
- Apply the liquid with the saturated MicronSweep Mop, applying pressure and moving with a back and forth motion.
- Run the saturated mop over the mat in a smooth S-motion.
- Repeat the process using a dry mop, pushing away and collecting the excess dirty water.

### Option B:

- Following Steps 1-2 from Option A, simply use the Berendsen Squeegee in an up-and-down motion pulling away the excess dirty water from the Cleanroom Flexi Mat. Then using the MicronSweep Mop, collect the excess water from the sub-floor adjacent to the Cleanroom Flexi Mat.

For a full list of Cleaning agents, and advice, contact your local Berendsen representative

# BERENDSEN

## Berendsen Cleanroom Services

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[www.berendsen.co.uk](http://www.berendsen.co.uk)

The Berendsen Group has more than 16,000 employees operating in 17 countries providing textile services within a broad variety of areas ranging from cleanroom services to mats and washroom solutions. Berendsen plc is Europe's largest textile service company listed on the London Stock exchange.

With a knowledge base built up over more than 100 years, Berendsen continuously improves its business models

to meet customer demands. Partnering with Berendsen ensures you an experienced partner and tailored textiles service to meet your specific requirements.

**Contact us:** Call us on 01635 234050 or visit us at [www.berendsen.co.uk](http://www.berendsen.co.uk) to see more about what we can do for you.

We provide a 360° solution for our customers:



### Cleanroom garments

We offer a wide range of cleanroom garments and accessories for all production types. Moreover, we have a selection of cleanroom undergarments for extra protection.



### Cleaning system

Our complete cleaning system is targeted for use in cleanrooms and controlled environments, and complies with applicable ISO and GMP standards.



### Goggles for cleanroom

Rental of goggles including cleaning, packing and sterilisation, leaving no risk of contamination and ensuring an optimal hygiene level.



### Consumables

We stock a vast array of consumable products for your cleanroom environment. We provide both sterile and non-sterile products ready to support your operations.