

5 Risks of Using Peel-off Mats



Saving Your Products, Processes and Profits

A contamination breach can result in rejected goods, manufacturing downtime and loss of consumer confidence. The negative impact on product yields, reworking and operational effectiveness **is significant** and the effect on profitability can be considerable.

Where does contamination come from?

Foot and wheelborne particles become airborne in your critical area, creating a high risk of particle and microbiological contamination.

80%

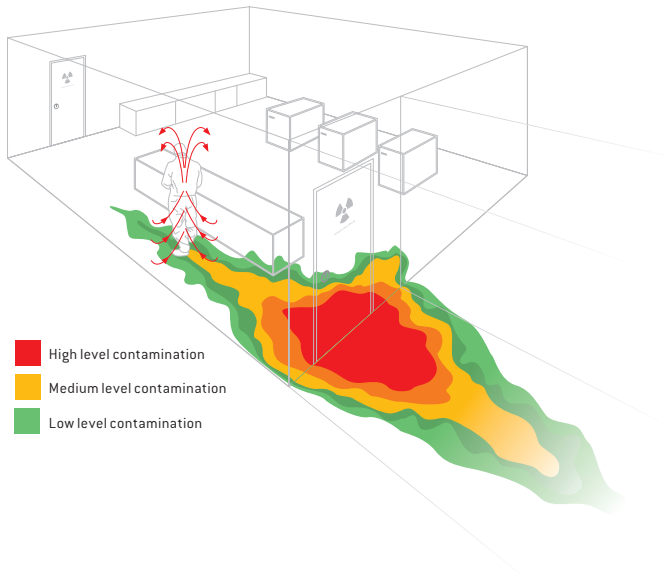
of the contamination
entering your critical area
does so on feet or wheels
at or near floor level.

Source: 3M

Switching from
peel-off mats to
Dycem has been
proven to reduce
airborne particles by

75%

Source: a global medical
device manufacturer



1 Preventing Foot and Wheelborne Contamination

It is vital that foot and wheelborne contamination is effectively controlled. It is commonly thought that using disposable, adhesive peel-off mats is the answer. However, tests from GlaxoSmithKline show that peel-off mats are only 27% effective in preventing foot and wheelborne contamination.

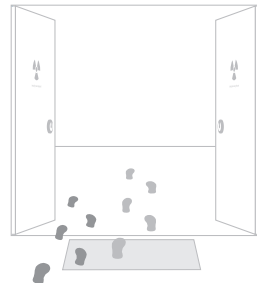
27%

of foot and wheelborne contamination is prevented by peel-off mats.

Dr Caroline Clibbon,
Senior Microbiologist, GlaxoSmithKline, UK

PEEL-OFF MATS

Effective decontamination needs at least six footfalls (three for each foot), or three full wheel rotations as contamination builds up in layers on shoes and wheels.

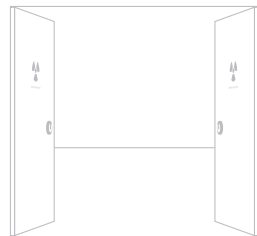


99.9%

of foot and wheelborne contamination is prevented by Dycem CleanZones.

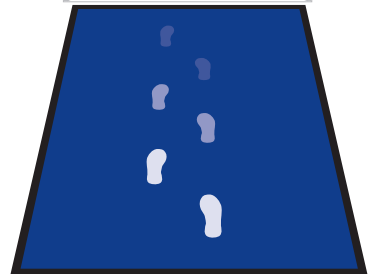
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DYCEM CLEANZONES



Size Matters:

Peel-off mats have a surface area that is on average five times smaller than a Dycem CleanZone.



2 Peel-off Mats Don't Work with Wheeled Traffic

Peel-off mats cannot allow the three full wheel rotations necessary to decontaminate wheeled traffic.

Peel-off mats are also prone to wrapping around wheels of trolleys and carts making it impossible to control **cross contamination** in corridors.

PEEL-OFF MATS

It is impossible
to decontaminate
wheeled traffic using
a peel-off mat.



DYCEM CLEANZONES

CleanZones remove

99.9%

of contamination
from wheeled traffic.



Peel-off mats wrap around the
wheels of trolleys and carts .

3 Peel-off Mats Become Ineffective with Multiple Footfalls

The performance of peel-off mats is greatly reduced with overstrikes. If used correctly i.e. each person stops and takes at least three steps with each foot, overstriking will occur. To achieve the peel-off mat's optimum 27% effectiveness they need to be peeled after every use.

In addition, particles readily transfer back onto footwear, increasing the risk of contamination.

PEEL-OFF MATS

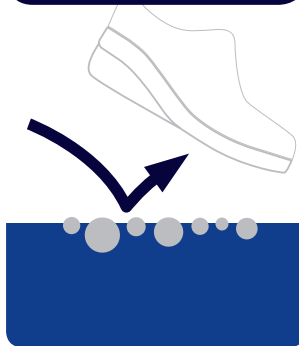
50%

drop in performance
when one person
uses the peel-off mat
correctly.



DYCEM CLEANZONES

CleanZones maintain
high performance
decontamination
even after several
overstrikes.



Peel-off mats are too hard to allow contact with all particle sizes. Small particles can remain on footwear.

4 Peeling Mats Causes Particle Shedding and Recontamination of the Atmosphere

A study commissioned by a peel-off mat manufacturer highlighted the problem of particle shedding during the rip-up process of peel-off mats.

EXPOSING STAFF TO VIABLE AND NON VIABLE PARTICLES DURING PEELING IS AN UNACCEPTABLE HEALTH AND SAFETY RISK.

PEEL-OFF MATS

In tests of leading peel-off mats, on average
215,000
particles were released during the rip-up process.

DYCEM CLEANZONES

Particles captured by CleanZones are contained and removed safely during wet cleaning.



The peeling stage releases hundreds of thousands of particles back into the atmosphere.



5 Peel-off Mats Harm Your Environmental and Health & Safety Compliance

Peel-off mats generate a 20cm (8") ball of waste each time a mat is ripped up and generate enough waste to fill multiple dumpsters/skips in a single year (average estimates have proven between 8-25 dumpsters). As the surface area of the peel-off mat is exposed to contaminated particles, it should be treated as **secondary waste** which costs more to dispose of safely.

Dycem CleanZones are cleaned as part of your regular floor cleaning schedule and therefore do not impact on your daily waste volumes. Dycem CleanZones can also be recycled into less critical applications at the end of their lifecycle.

PEEL-OFF MATS

The use of adhesive peel-off mats also presents a **health and safety risk** to cleanroom personnel. The adhesive often pulls and rips overshoes and also causes a **severe tripping hazard**.

Peel-off mats create large quantities of secondary waste which is impossible to recycle.



DYCEM CLEANZONES

Dycem CleanZones reduce your carbon footprint and can be recycled into less critical applications at the end of their life-cycle.



Contaminated peel-off mats are a risk to health and must be disposed of with care as secondary waste.

See the Dycem Difference, call.
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DON'T TAKE THE RISK

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