

What are the Key Flooring Considerations for Cleanroom Environments?

In pharmaceutical production, processing and research environments, cleanrooms play a critical role in ensuring that resulting products are free from contamination...





The air in clean rooms is required to contain a low level of small particles per cubic metre.



In order to maintain an environment that provides a functional facility whilst meeting required cleanliness standards, suitable building materials must be specified.

Flooring specified for cleanrooms should provide a range of performance benefits.



Resistance



Hygiene



Antistatic
Properties



Low Particle
Emission

Resistance

A floor finish that retains its integrity when faced with abrasion, impact and wheeled traffic as well as chemical attack is imperative to reducing the emission of particles into the air.

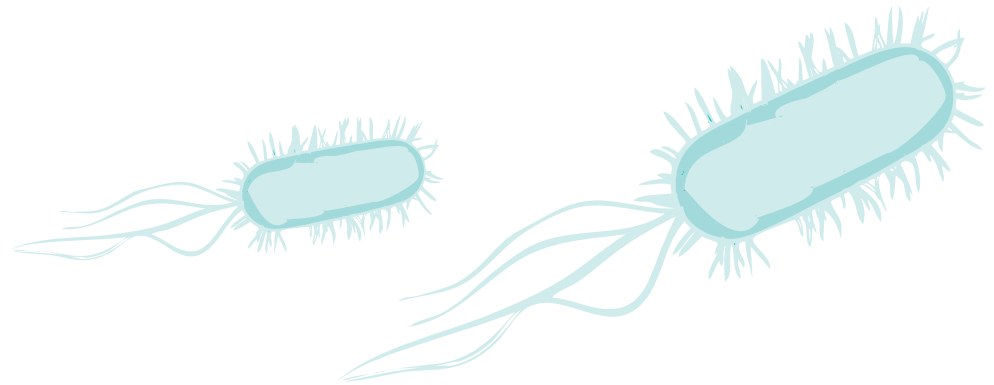


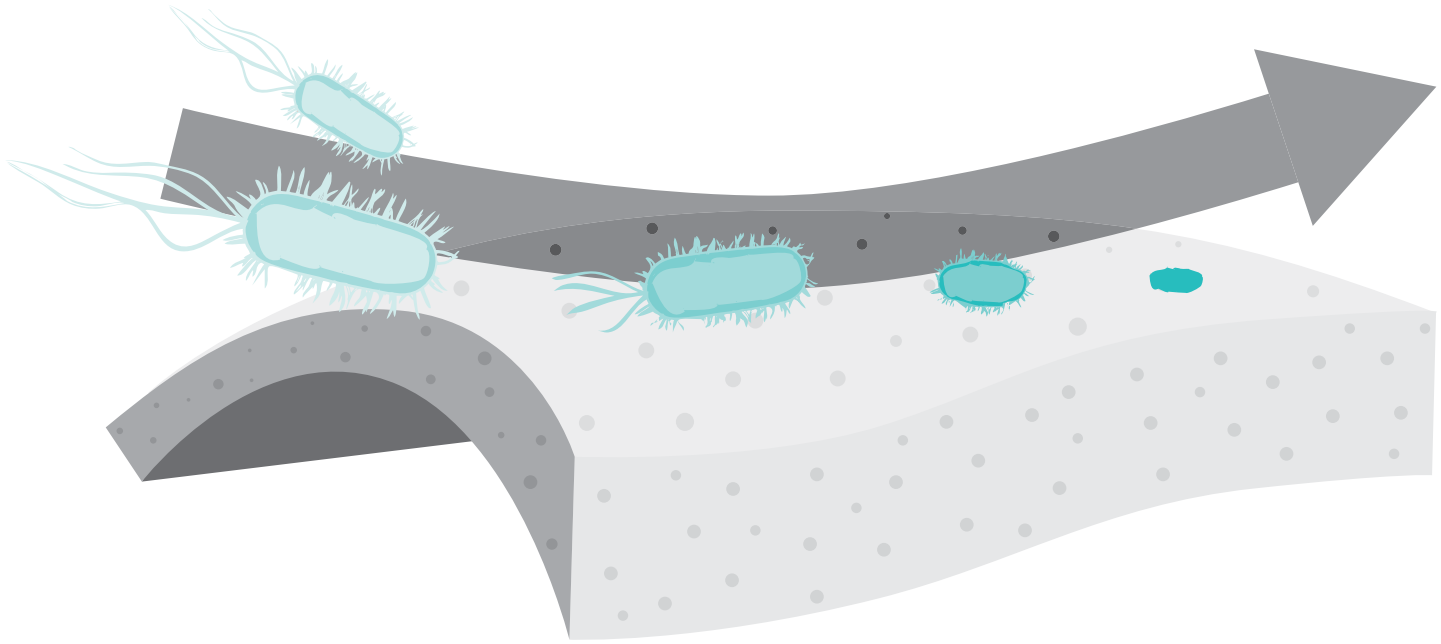


The specified finish should also be able to withstand stringent cleaning processes.

Hygiene

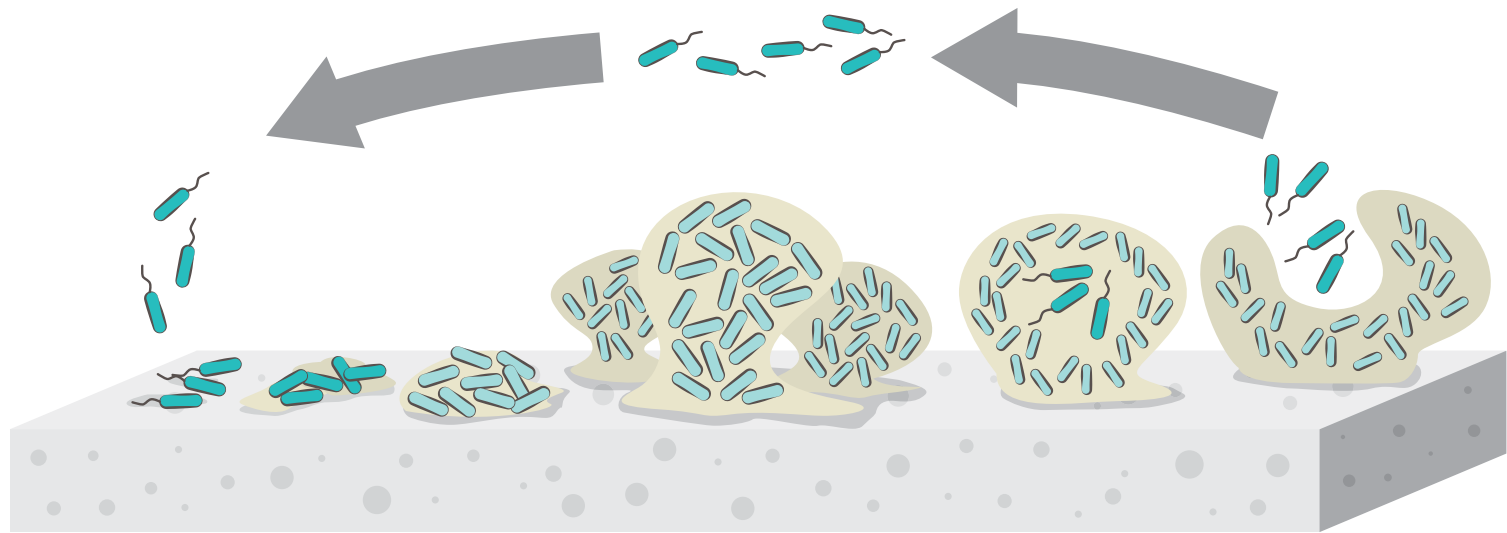
A seamless solution provides an easy to clean floor finish that reduces the build up of bacteria that often occurs in cracks and joints.





Choosing a floor finish with an antimicrobial additive will help to reduce surface bacteria, reducing the risk of contamination.

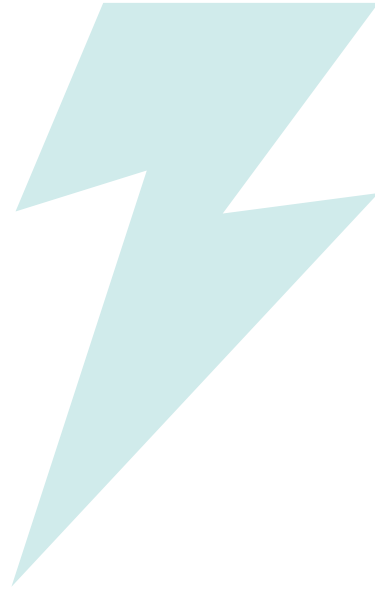
During the biofilm cycle, bacteria are dispersed into the atmosphere, increasing air particle content.



The background of the slide features a repeating pattern of light blue lightning bolts and exclamation marks scattered across a light teal background. A white rectangular box with a thin blue border is centered on the slide, containing the main title.

Antistatic Properties

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In sensitive environments, choosing an antistatic dissipative or conductive floor finish will help to protect against static shock.

Choose an antistatic epoxy resin flooring that meets BS2050, ANSI/ESDS2020 (ANSI/ESDS7.1 and ANSI/ESDSTM 97.1), ASTM F150 Conductive, IEC 61340-4-1 and IEC 61340-4-5 requirements.



Low Particle Emission

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Once cured, epoxy and polyurethane resins are inert and low in VOCs, releasing no particles into the surrounding environment.



Flowcrete India is a world leading manufacturer of specialist flooring systems, including a range of epoxy and polyurethane resin floor systems ideally suited to cleanroom environments.

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Contact us today for more
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