



ISO 14644-1

The only flooring
guaranteed 10 years

**Mipolam
Biocontrol Clean**

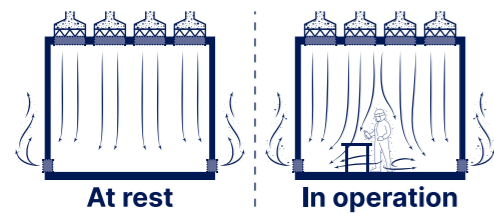
Gerflor®

What is the level of airborne particle release of your flooring after 10 years in use?

According to the Cleanroom type, the materials used (including the flooring) must meet the requirements of the needed ISO class, regarding the airborne particles release level in the air (ISO 14644-1). The required airborne particle level must meet GMP cleanroom standards depending on its status - at rest or in operation (see below table).

GMP Class	At rest **	In operation**
A	ISO 5	ISO 5
B	ISO 5	ISO 7
C	ISO 7	ISO 8
D	ISO 8	

** According ISO 14644-1 class



Flooring is a key element in the choice of materials. Gerflor has designed the **Mipolam Biocontrol Clean** floor covering solution to meet the highest cleanroom standard on the market - GMP class A (tested ISO 3 by Fraunhofer Institute).

Aren't all materials tested by third parties, when a cleanroom is freshly built? What is the airborne particles release level after 10 years in use?



To ensure that our products consistently perform when looking at airborne particle release through a period of time, **GERFLOR have tested its Cleanroom flooring solutions over a 10 year period, simulating real life traffic/abrasion onto the floor covering** (using a Castor Chair traffic simulation testing method according to ISO 4918).

After 10 years constant abrasion, Mipolam Biocontrol Clean remains ISO 4 and so compliant with GMP Class A requirements.



Mipolam Biocontrol Clean is the only flooring that guarantees 10 years on to meet ISO 14644-1.

Class	Particle size						GMP Class*	
	> 0,1 µm per m ³	> 0,2 µm per m ³	> 0,3 µm per m ³	> 0,5 µm per m ³	> 1 µm per m ³	> 5 µm per m ³	At rest	In Operation
ISO 1	10	2						
ISO 2	100	24	10	4				
ISO 3	1000	237	102	35	8		Compliant class A	Compliant class A
ISO 4	10 000	2370	1020	352	83		Compliant class A	Compliant class A
ISO 5	100 000	23 700	10 200	3520	832	29	A - B	A
ISO 6	1 000 000	237 000	102 000	35 200	8320	293	-	-
ISO 7				352 000	83 200	2930	C	B
ISO 8				3 520 000	832 000	29 300	D	C
ISO 9				35 200 000	8 320 000	293 000	-	-

Freshly built:
Mipolam Biocontrol Clean compliant Class **ISO 3**

After 10 years in use, In operation :
Mipolam Biocontrol Clean compliant Class **ISO 4**



*Equivalence with the standard ISO 14 644-1

Mipolam Biocontrol Clean

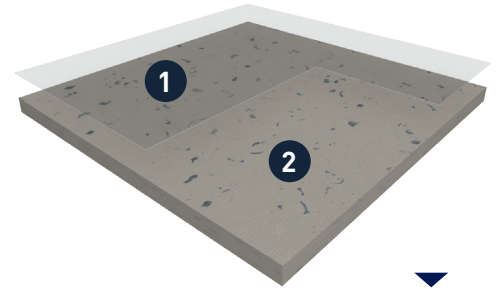
The flooring reference for cleanrooms



Resistance to heavy load



Clean Corner System compliant



GMP-Class A

GMP compliance



Cleaning and easy decontamination

ISO 3

Certified for use in ISO 3 Cleanroom ISO 14 644-1



Chemical resistance

H₂O₂ RESISTANT

Resistant to decontamination process

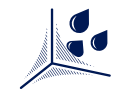


Sold in rolls of 20 × 2 m

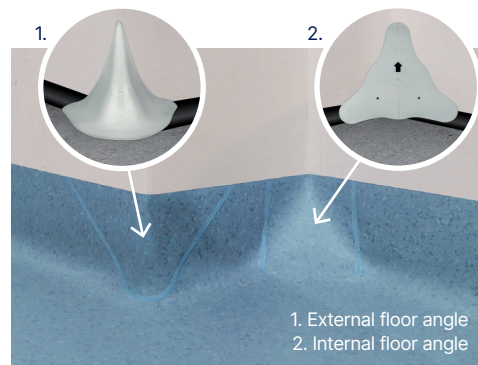
1. Patented surface treatment
2. Monolayer homogeneous flooring, pressed and calendered

Gerflor Clean Corner System

A patented innovative solution



GMP-Class A



1. External floor angle
2. Internal floor angle

We care / We act Our Commitments for a Sustainable future



CARBON FOOTPRINT*
-20 % kg CO₂ equivalent /m² between 2020 and 2025



BIOSOURCED CONTENT**
10 % by 2025



RECYCLED CONTENT
30 % by 2025



ADHESIVE FREE***
35 % d'ici à 2025



ANNUAL VOLUME RECYCLED
60 000 t by 2025



* Scopes 1 and 2 defined in the GHG protocol ** % of activity with biosourced materials *** % of activity - adhesive free solution