

Certified antibacterial protection | ISO 22196:2011

IKONOS

factory of coated - decoration - self adhesive films

07.2020

Powerful protection of surfaces
against harmful microbes

New

DIY - Easy to apply

Tested on:

Escherichia Coli
& Staphylococcus Aureus

**FAST
&
EASY**
TECHNOLOGY



OVER
99,9%
EFFICACY

Czym jest nasz nowy produkt?

At first glance, it is a 100 micrometer transparent or white PVC film. What you can't see is its antibacterial properties resulting from having a special coating.

This extra coating prevents bacteria from multiplying on laminated surfaces! Its effectiveness has been thoroughly tested and confirmed by official certificates: ISO 22196: 2011.

The film is suitable for print & lamination!

What is the biggest advantage of the product?

Very wide range of applications. The antibacterial film fits perfectly everywhere, where it is necessary to maintain a sterile environment.



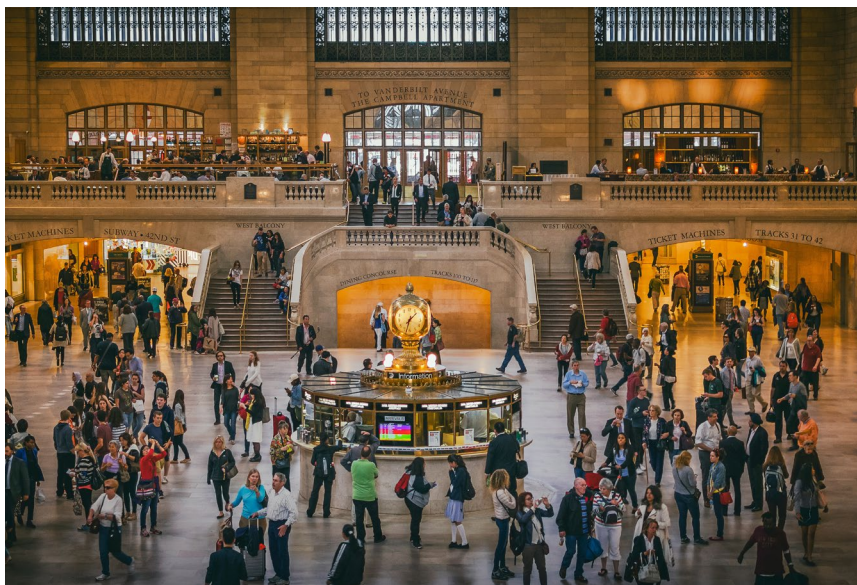
A professional application without a professional?



This is possible thanks to the use of Fast & Easy technology. Get a professional effect yourself! The special tubular structure of the glue makes the application of Ikonos materials a pleasure, not a job.

- security - fewer people involved in the project reduce the risk associated with COVID-19
- saving money - no need to spend them on assembly
- convenience and speed - immediate installation at the most appropriate time, not when the contractor fits





Let's restore security to public spaces!

Conditions for a valid test		
Requirements	Obtained results	Assessment of the study
The logarithmic value of the number of bacteria recovered immediately after inoculation from the untreated test specimens shall satisfy the following requirement: $(L_{max}-L_{min}) / (L_{mean}) < 0.2$ where: L_{max} , L_{min} - decimal logarithm of the largest and smallest number of bacteria on the sample immediately after inoculation of bacteria L_{mean} - decimal logarithm of the average number of bacteria on the sample immediately after inoculation of bacteria	$L_{min} = 4.17$ $L_{max} = 4.22$ $L_{mean} = 4.20$ $(4.22-4.17)/(4.20) = 0.01$	Meets the criteria
The average number of bacteria determined immediately after inoculation on the control sample should be within the range of 6.2×10^3 to 2.5×10^4 cfu/cm ²	1.6×10^4 cfu/cm ²	Meets the criteria
The number of bacteria on each control sample after 24 hours of incubation should be not less than 6.1×10^1 cfu/cm ²	7.9×10^5 cfu/cm ² 9.3×10^5 cfu/cm ² 9.0×10^5 cfu/cm ²	Meets the criteria

Table 1. Antibacterial activity results of film samples against *E. coli* - results are given as the average of three replicates.

Sample symbol	Time [h]	<i>Escherichia coli</i> ATCC 11229		
		Number of bacteria average value N_{mean} [cfu/cm ²]	$\log N_{mean}$	Antibacterial activity R
control	0	1.6×10^4	$U_0 = 4.20$	-
control	24	8.8×10^5	$U_t = 5.94$	-
Film Profiflex Pro GPT FX100+ Antibacterial	24	5.5×10^3	$A_t = 3.72$	2.22



**OVER
99,9%
EFFICACY**

continuation of the Test Report No 34/2020 of 10/06/2020

Test results for *Staphylococcus aureus* ATCC 6538

Date of test: 01-04/06/2020

Number of replicates: three replicates of each sample

Incubation temperature: 35°C

S. aureus inoculum concentration: 4.2×10^5 cfu / ml,

Inoculum volume: 0.4ml

Conditions for a valid test		
Requirements	Obtained results	Assessment of the study
The logarithmic value of the number of bacteria recovered immediately after inoculation from the untreated test specimens shall satisfy the following requirement: $(L_{max}-L_{min}) / (L_{mean}) < 0.2$ where: L _{max} , L _{min} - decimal logarithm of the largest and smallest number of bacteria on the sample immediately after inoculation of bacteria L _{mean} - decimal logarithm of the average number of bacteria on the sample immediately after inoculation of bacteria	L _{min} =4.08 L _{max} =4.12 L _{mean} =4.10 $(4.12-4.08)/(4.10) = 0.01$	Meets the criteria
The average number of bacteria determined immediately after inoculation on the control sample should be within the range of 6.2×10^3 to 2.5×10^4 cfu/cm ²	1.3×10^4 cfu/cm ²	Meets the criteria
The number of bacteria on each control sample after 24 hours of incubation should be not less than 6.1×10^1 cfu/cm ²	5.2×10^4 cfu/cm ² 3.8×10^4 cfu/cm ² 4.5×10^4 cfu/cm ²	Meets the criteria

Table 2. Antibacterial activity results of film samples againsts *S. aureus* - results are given as the average of three replicates.

Sample symbol	Time [h]	<i>Staphylococcus aureus</i> ATCC 6538		
		Number of bacteria average value N _{mean} [cfu/cm ²]	log N _{mean}	Antibacterial activity R
control foil	0	1.3×10^4	U ₀ = 4.10	-
control foil	24	4.5×10^4	U ₁ = 4.65	-
Film Profiflex Pro GPT FX100+ Antibacterial	24	1.3×10^0	A ₁ = 0.10	4.55

Conclusions:

The tested sample labeled **Film Profiflex Pro GPT FX100+ Antibacterial** showed **antibacterial activity** against tested strains of *Escherichia coli* ATCC 11229 and **strong antibacterial activity** with reference to *Staphylococcus aureus* ATCC 6538.

After 24 hours of incubation the number of *E. coli* bacteria in the control sample was 8.8×10^5 cfu/cm², while on the test sample was 5.5×10^3 cfu/cm². Antibacterial activity R was 2.22 with reference to *E. coli*.