

DATA SHEET

Hygienik Am-Guard 2mm Antimicrobial Wall Protection



Am-Guard wall protection is the ideal Antimicrobial Wall Protection for high traffic areas and corridors in medical facilities, laboratories and foodsafe environments where hygiene is critical.

It has an embossed textured surface that is tough, scratch-resistant and hard wearing.

Am-Guard is specifically designed to help alleviate the scratches, bumps and scrapes that occur in busy healthcare environments. It prevents indentations, chips and penetrations of plaster walls etc.

The surface of *Am-Guard* is up to 20 times more scratch-resistant than standard PVC panels and germs cannot gain a foothold. The surface is highly resistant to chemicals. This means that cleaning is quick and easy and any traces of bacteria and virus cannot re-form on the panel's surface.

The antimicrobial properties in *Am-Guard* are added during manufacturing. Tiny particles of silver ions deliver an authentic sterile performance. The active ingredients contain no toxins and prevent the growth of bacteria, mould and viruses – including MRSA and food contaminants.

It meets UK and EU hygiene requirements and is Class 1 fire-rated, achieving a Class 0 rating when fixed to a non-combustible surface.

Am-Guard has a proven track record in the UK and Europe. It is available in a choice of 8 attractive colours and delivers supreme hygiene and wall protection for many sectors, including healthcare, pharmaceuticals, food and drink manufacturing, restaurant kitchens and leisure centres.

Hygienik Systems works with the UK's leading building contractors, architects, specifiers and surveyors. We are experts in cladding materials, wall protection, bespoke cladding installations and all aspects of safety and hygiene performance.

Prevents and inhibits:

MRSA (Methacillin Resistant Staphylococcus Aureus)
C Difficile, Aspergillus Niger,
E Coli, Salmonella and more
(see table overleaf).

Suitable for:

hospitals, surgeries,
care homes, mortuaries,
laboratories, sterile
manufacturing plants
e.g. pharmaceuticals,
refrigeration stores,
food and drink
manufacturing, kitchens,
restaurants, food
counters, leisurecentre
wet rooms etc.

For further information or technical advice

Call 01274 578 051

Email: info@hygienee.com

Description

Antimicrobial Wall Protection

- Performance:** Proven to kill bacteria and inhibits growth of pathogens.
- Colours:** White, Pistachio (light cream), Beige, Grape (green), Red, Ocean Blue, Light Grey, Black
Colour-matched panels available on request, subject to minimum order quantities.
- Surface finish:** Textured anti-scratch.

Measurements

- Am-Guard:** 3000mm x 1220mm x 2mm
3000mm x 1500mm x 2mm
- Weight:** 3.5 kg per m²
- Service temp:** -10°C to +50°C

Antimicrobial Performance

Independent 24 hour tests provided the following high levels of antimicrobial activity in relation to the 10 most common microbes.

Microbe Elimination Test Results*

(% CFU Reduction after 24 hours)

MRSA	99.9%
Listeria Monocytogenes	99.9%
Staphylococcus Aureus	99.9%
Aspergillus Niger	99.7%
Ligionella Peumophila	98.5%
Streptococcus Fecalis	97.9%
Salmonella Typhimurium	96.1%
Clostridium Difficile	95.0%
VRE	87.6%
Klebsiella Pneumonia	87.4%

*In an independent lab test, 10 common microbes were selected, and each of them was incubated on panels for 24hrs at 37°C and >90% RH. As the table shows, **Am-Guard** panels demonstrate high antimicrobial activity. Use of **Am-Guard**, along with an adequate cleaning regime, would significantly reduce microbial growth, including dangerous pathogens.

Flammability

Am-Guard is self-extinguishing and complies with the most demanding international fire resistance standards defined for plastics, as shown below.

Standard:	Classification:
EN 13501	B, s3, d0
DIN 4102	B-1
BS 476/7	Class 0
NSP 92501,5	M-1
ASTM E 84	Class A

Cutting and Drilling

Panels can be cut to size using hand tools. The protective film on every panel should be left in place until installation begins. Use slow drill speeds to penetrate the panel.

Joints

Panels are fixed using butt joints. This involves leaving an even 3mm gap between the vertical edges of the sheets when bonding them to the wall. The gap is then filled and hygienically sealed with cold or hot weldrod. This is available in colours which match the panels.

Corners

Am-Guard sheets can be expertly thermoformed on-site ensuring a professional finish and minimising edge joints around corners, windows and doors. External corners in high traffic areas can also be over-clad with robust corner protectors.

Cleaning

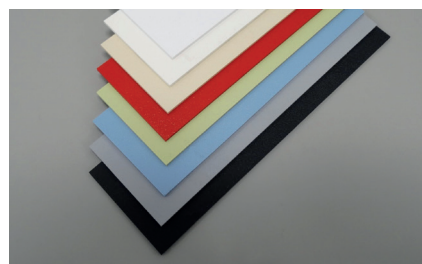
Regular cleaning using a soft cloth and a suitably diluted mild detergent is all that is normally required. Do not use abrasive pads or wire wool. Do not clean above 50°C.

Temperature

Am-Guard sheet has a maximum working temperature of 50°C. For higher temperatures (e.g. open flame and oven areas in kitchens) we recommend stainless steel panels.

Colours

Am-Guard is available in White, Pistachio (light cream), Beige, Grape (green), Red, Ocean Blue, Light Grey and Black with matching weldrod.



Colour-matched panels available on request, subject to minimum order quantities.

Technical Data

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm ³	1.4
Heat deflection temperature (HDT)	D-648	Load: 1.82MPa	°C	65 - 68
Service temperature			°C	-10 to +50
Thermal conductivity	C-177		W/m K	0.15
Coefficient of linear thermal expansion	D-696		cm/cm °C	6.7 x 10 ⁻⁵
Rockwell hardness	D-785		R Scale	97R
Tensile strength at yield	D-638	10mm/min	MPa	50
Tensile strength at break	D-638	10mm/min	MPa	45
Elongation at yield	D-638	10mm/min	%	3
Elongation at break	D-638	10mm/min	%	>80
Tensile modulus of elasticity	D-638	1mm/min	MPa	2,900
Flexural strength	D-790	1.3mm/min	MPa	80
Flexural modulus	D-790	1.3mm/min	MPa	2,700
Impact falling weight	ISO 6603/1 E50	3mm sheet	J	95

*ASTM except where noted otherwise



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