



Commercial Kitchens & Food Processing Units



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01 - Current Risks and Problems in Existing Infrastructure

CURRENT RISKS

- Food Contamination
- Regulatory Compliance Failures
- Fear & Loss of Trust

PROBLEMS IN CURRENT INFRASTRUCTURE

- **Microbial Incubators** -Traditional materials often harbour bacteria, mould, and fungi.
 - Grout Lines and Joints
 - Biofilm Formation
 - Porous Surfaces
- **Physical Risks** – Walls are subjected to thermal shock and impact from trolleys or carts.
 - Flaking or Peeling
 - Chipping
- **Chemical Risks** - Food safety regulations require the use of aggressive cleaning agents (chlorine, caustic soda, or acids).
 - Chemical Reaction (eroding paint or release smell)
 - Absorption and Leaching

PROBLEMS IN CURRENT INFRASTRUCTURE



Painted Walls - Mould & Flaking



Tiles – Grout Lines & Breakage



Sweating & Staining of Walls

PROBLEMS IN CURRENT INFRASTRUCTURE



Oil Stains & Infestation



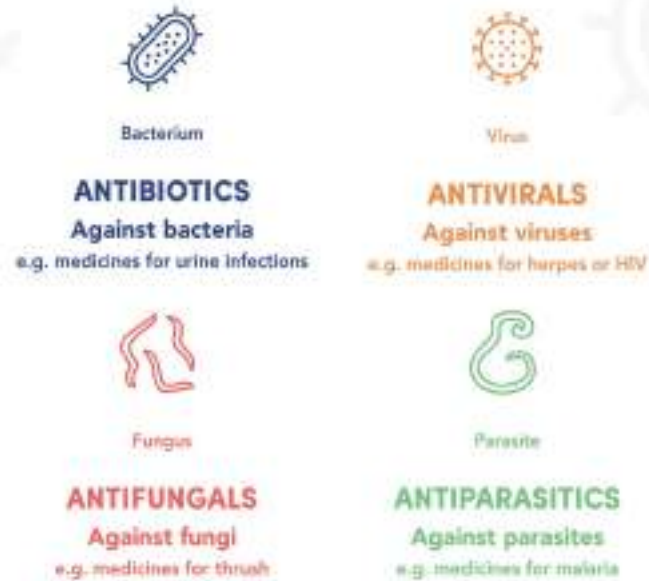
Metal Cladding – Open Joints



Metal Cladding – Cleaning Issues

02 - Difference Between Antimicrobial and Antibacterial

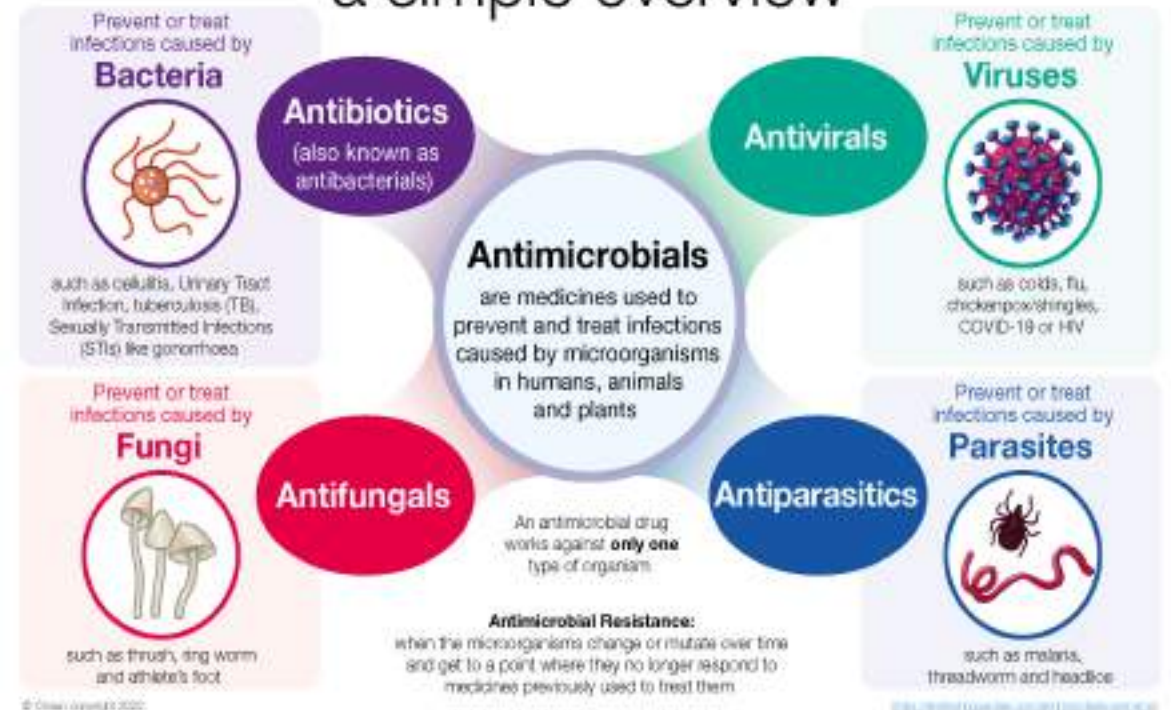
ANTIMICROBIALS



AUSTRALIAN COMMISSION
ON SAFETY AND QUALITY IN HEALTH CARE



Antimicrobials: a simple overview



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03 – Kleenclad Solutions

SOLUTIONS



Antimicrobial Walls & Ceilings



Dycem - Anticontamination Flooring



Biovitae - Antimicrobial Lighting



3A – Kleensclad Antimicrobial Cladding System

Performance Warranty – 30 Years *

KLEENCLAD™ ANTIMICROBIAL CLADDING

Property	Specification
Base Material	Rigid PVC (Polyvinyl Chloride, unplasticized)
Antimicrobial Technology	Silver ion (Ag ⁺) antimicrobial additive, incorporated throughout the full thickness during extrusion
Available Thickness	1.00mm ~ 12.00mm
Sheet Sizes	Up to 3050mm x 1220mm (custom sizes available)
Surface Finish	Smooth Satin (Standard), Abrasion Resistant (Textured) and High Gloss
Max. Service Temperature	60°C continuous, HDT : 70°C per ASTM D648
Min. Service Temperature	-10°C
Specific Gravity	1.46 g/cm ³ (ASTM D792)
Rockwell Hardness	R 115 (R-Scale : ASTM D785)
Tensile Strength	600 kgf/cm ² (ASTM D638)
Antimicrobial Standard	ISO 22196:2011 (IMSL, UK and India - NABL Accredited Test)
Hygiene Compliance	HACCP Approved (Food-Safe)
Fire Rating	Fire Retardant - EN 13501 B-S3-D0 , ASTM E84 Class A
Application Sectors	Hospitals Pharma Food Processing IVF Labs Cleanrooms Schools Washrooms
Performance Warranty	30 Years (Refer to Performance Warranty Certificate for details)



KLEENCLAD™ CERTIFICATIONS



APPLICATIONS – COMMERCIAL KITCHENS



APPLICATIONS – COMMERCIAL KITCHENS



APPLICATIONS – COMMERCIAL KITCHENS

Commercial Kitchen Project : Stoke,
U.K.



Commercial Kitchen Project :
Bengaluru, India



APPLICATIONS – COMMERCIAL KITCHENS

Commercial Kitchen Project : Kolkata, India



APPLICATIONS – FPU

Food Factory Project : Nagpur, India



KLEENCLAD™ - THE CLEAR ADVANTAGE



Seamless Thermoformed
Corners



BIOMASTER™
POLYGIENE PRODUCT PROTECTION



POWERFUL ANTIMICROBIAL ACTION
BioMaster eliminates 99.9% of microbes



LONG LASTING, 24/7 PROTECTION
Provides non-stop protection for a product's entire lifespan



SAFE TO USE IN ANY ENVIRONMENT
BioMaster contains no nanotechnology and is non-leaching

Silver Ion - Antimicrobial Technology

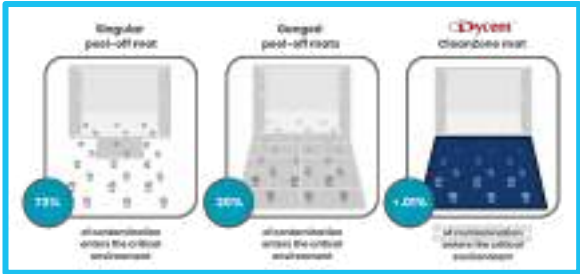
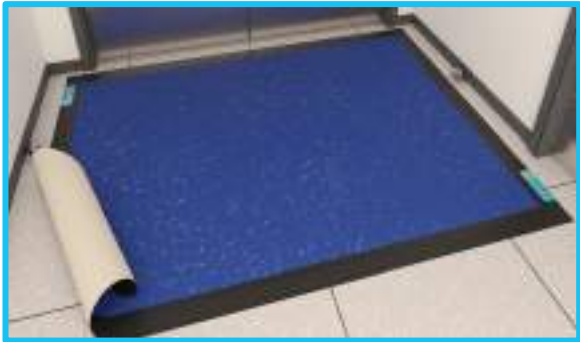


Fraud Detection – Laser Taggent

3B – Dycem Anticontamination Flooring

DYCEM ANTI CONTAMINATION FLOORING

Property	Specification
Product	Dycem® Anti-Contamination Flooring
Material	Patented Polymeric Flooring
Thickness	2mm – 3mm
Types	Fixed – Cleanzone & Workzone Floating Mats
Antimicrobial Technology	Silver ion (Ag ⁺) antimicrobial additive
Particulate Control	Captures and retains upto 99% of floor level and 75% of airborne particulate matter.
Performance Warranty	3 ~ 5 Years (Refer to Warranty Certificate for Details)



3C – Biovitae Antimicrobial Lighting

BIOVITAE® ANTIMICROBIAL LED LIGHTING

Property	Specification
Product	Biovitae® LED
Technology	Antimicrobial Lighting Patented wavelengths are the only ones capable of effectively penetrating biofilm and killing the bacteria within.
How does it work?	Uses a combination of visible-spectrum wavelengths (without UV) and emits a natural white light that sanitizes air and surfaces without interrupting normal activities.
Colour Temperature Options	3000K (Warm White) 4000K (Cool White)
Lumens	1400 – 6000lm (depending on the model)
Power	18W – 45W (depending on the model)
Rated Lifetime	50,000h
Angle	110°
IP Rating	Yes (IP65 – Cleanroom)
Warranty	5 years





3D – Design to Delivery

DESIGN TO DELIVERY



Cladding



Lighting



Flooring



Kleenclad
Hygiene begins with us



KLEENVISION:
Design to
Delivery



CUSTOMERS





Reach Us :



: info@kleenclad.com



: www.kleenclad.com



: U.K. , India , U.A.E.