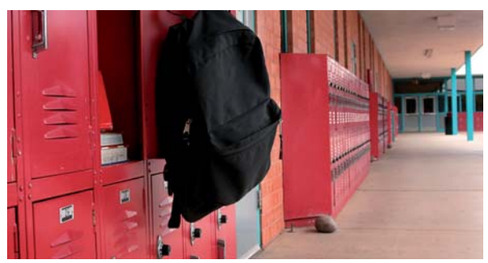
As lethal as a Silver Bullet

The antimicrobial agent in **clinikill**™ has been tested to the Japanese Industrial Standard JIS Z 2801:2000 and kills a wide range of bacteria, yeast and fungi including but not limited to...

Bacillus cereus
Vibrio parahaemolyticus
Salmonella gallinarum
Salmonella enteriditis
H5N-1-type bird flu virus
Human coronavirus (human SARS virus)
Enterobacter aerogenes
Escherichia coli
Pseudomonas aeruginosa
Staphylococcus aureus
Streptococcus faecalis
Lactobacillus casei
Rhodotorura glutinis
Candida albicans
Saccharomyces cerevisiae
Aspergillus niger
Aureobasidium pullulans
Chaetomium globosum
Gliocladium virens
Penicillium funiculosum
Micrococcus flavus
Cladosporium herbarum
Penicillium citrinum
Alternaria alternata
Fusarium moniliforme
Fusarium oxysporum
Aspergillus flavus
Geotrichum candidum
Mucor racemosus
Myrothecium verrucaria
Penicillium nigricans
Paecilomyces varioti
Rhizopus nigricans
Trichoderma viride
Curvularia trifolii
Trichophyton mentagrophytes



Dulux®
POWDER & INDUSTRIAL COATINGS

APPROVALS / ACCREDITATIONS

Independent testing by specialist external laboratories to the Japanese industrial Standard JIS Z 2801:2000 has shown **clinikill**™ technology to be effective against many strains of bacterium, fungi and yeast.

1. U.S. FDA (Food and Drug Administration)

The antimicrobial additive used in **clinikill**™ has been approved as a Food Contact Substance (notification FCN000047) and can be used for every type of food packaging resin products. As for food types, it can be used for all types of food including animal products from A to H according to the FDA classification (listed on CFR 176.170(C) Table 2).

2. U.S. EPA (Environmental Protection Agency)

The antimicrobial additive used in **clinikill**™ has been approved by the EPA for use in preservatives and antimicrobials for food-contact, potable water-contact and non food-contact applications. Registration No. 071227.

COLOUR AND CHEMISTRY

clinikill™ is available in most powder coating technologies, from pure epoxies, through Polyester / Epoxy Hybrids, standard and high durability polyesters, antigraffiti products and Powder Coatings designed for use with heat sensitive substrates.

TO SPECIFY

Utilise the **clinikill**™ brand accompanied by the desired chemistry, colour and reference number thus:-

Dulux **clinikill**™ Antigraffiti Silver Pearl 9107113K

Or

Dulux **clinikill**™ Duralloy Silver Pearl 9157113K

Dulux®
POWDER & INDUSTRIAL COATINGS

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F + 65 6733 5125

www.duluxpowdercoatings.co.nz

As lethal as a Silver Bullet

Antimicrobial, Antibacterial & Antifungal Powder Coating...

Where long term hygiene is paramount

EFFECTIVE CONTROL OF BACTERIA, YEAST AND FUNGI IN FOOD PROCESSING, HEALTHCARE, EDUCATIONAL FACILITIES, LAUNDRY / BATHROOMS, & PUBLIC PLACES.

HOSPITAL WARDS

Methicillin resistant Staphylococcus aureus after 24 hours exposure to **clinikill**™

PUBLIC TOILETS

Escherichia coli after 24 hours exposure to **clinikill**™

CHILD CARE CENTRES

ELDERLY CARE FACILITIES

Salmonella enteritidis after 24 hours exposure to **clinikill**™

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CONTROL OF HARMFUL MICROBES

clinikill™ is a very effective tool in the control of bacteria, yeast and fungi. **clinikill**™ is available in most powder coating chemistries, colours and special FX product and as a consequence may be used in a myriad of environments.

Independent testing by specialist external laboratories to the Japanese industrial Standard JIS Z 2801:2000 has shown **clinikill**™ technology to be effective against many strains of bacterium, fungi and yeast.

Examples of bacteria tested. *Bacillus cereus, E.coli, Pseudomonas aeruginosa, Staphylococcus aureus, Methicillin resistant, Straphylococcus aureus (MRSA), Salmonella enteriditis*.

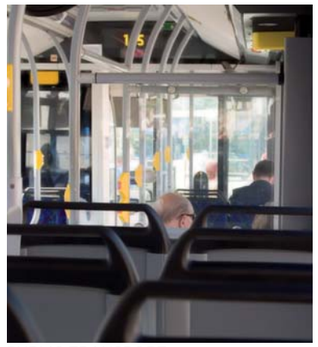
Some examples of potential areas where **clinikill**™ powder coatings are used:-

- Food storage areas and equipment - refrigerators, food display chillers and cases, etc
- Food processing areas and equipment including animal products
- Lockers
- Healthcare furniture and equipment - beds, trolleys, bedside cabinets, light fittings, etc
- Medical & Dentistry devices
- School & childcare facilities
- Laundry equipment
- Bathroom equipment
- Door handles
- Joinery, Balustrades, Elevators & Handrails
- Public transport, stadiums & airports
- Aged care facilities, resthomes, etc


HEALTHCARE BEDS & CABINETS

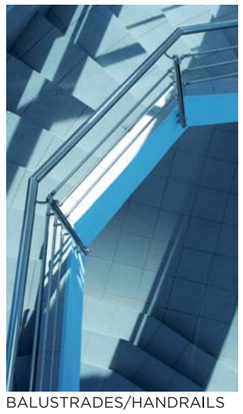
ELEVATORS

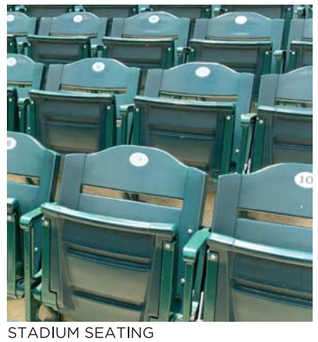

FOOD PROCESSING


PUBLIC TRANSPORT


DOOR HANDLES


DENTISTRY


BALUSTRADES/HANDRAILS


STADIUM SEATING


DISPLAY CHILLERS

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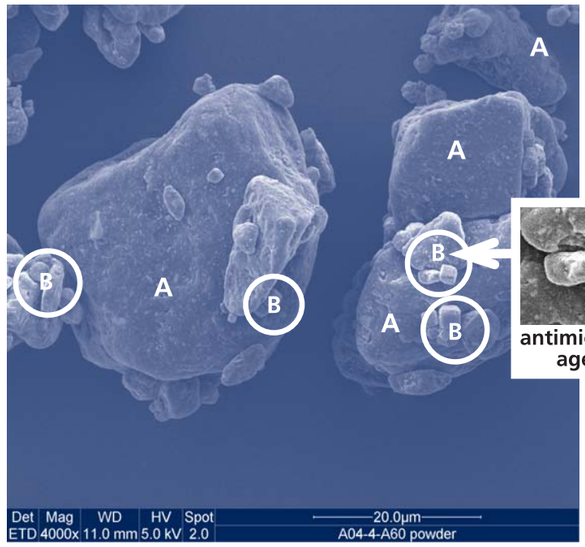
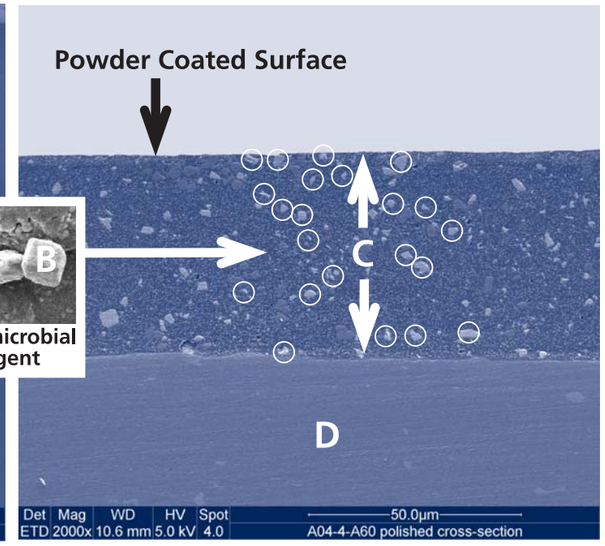
clinikill™ UTILISES KINETIC TECHNOLOGY TO BOOST ITS PERFORMANCE!

Kinetic technology enables us to ensure the antimicrobial agent is presented at the surface of the coated article where contact with the harmful bacteria and fungi and the antimicrobial effect is maximised.

The Kinetic technology also evenly distributes the antimicrobial agent throughout the coating so its' effectiveness will be maintained with normal wear and tear such as light scratches and abrasions.



A. Powder coating particle.
B. Antimicrobial agent.

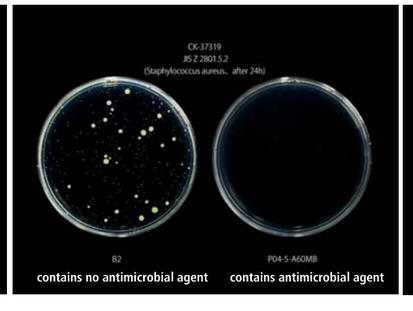


C. Powder coating film containing antimicrobial agent
D. Substrate of powder coated article eg, metal, wood, etc

ANTIMICROBIAL EFFECT

Thanks to the antimicrobial power of silver ions within it, **clinikill**™ shows antimicrobial effect against a wide spectrum of bacteria, yeast and fungi including gram-negative bacteria such as *Escherichia coli* and *Pseudomonas aeruginosa*, gram-positive bacteria such as *Staphylococcus aureus* and *MRSA;* and fungi such as *Aspergillus niger* and *Penicillium nigricans.*

Pseudomonas aeruginosa after 24 hours exposure to **clinikill**™



Staphylococcus aureus after 24 hours exposure to **clinikill**™

Bacillus cereus after 24 hours exposure to **clinikill**™