

Antimicrobial Coating



Hygienic Touch Solution

Antimicrobial coating – for secure and hygienic entry into rooms and buildings.

**Hygiene is of paramount importance today.
This is non-negotiable.**

The need to access a door with physical touch sometimes may be inevitable in a building or a facility. A challenge to maintain hygiene today, touch becomes sacred to everyone accessing a door by touching the hardware.

As a pioneer in providing touch-free access solutions, dormakaba now introduces antimicrobial protection as a preventive measure wherever touch is essential to access a door.

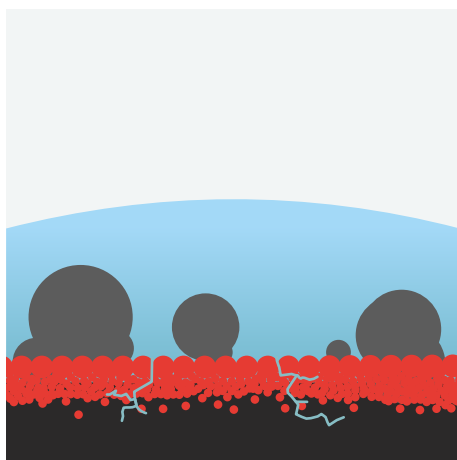
Varied door hardware applications like door lever handles or a panic exit devices that frequently require physical operation can be protected from being a source of infection spread.

This specialised antimicrobial coating can be widely used in such hardware and supports the need to have a solution for secure, hygienic and safe entry into rooms.

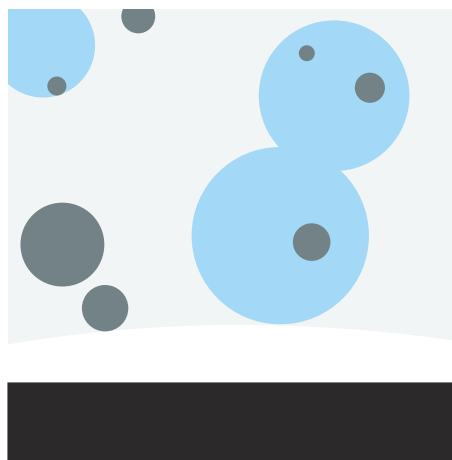


What is the coating technology?

The antimicrobial coating works at a cellular level to continually disrupt the growth and reproduction of microorganisms that contaminate a treated surface. The technology operates a multi-modal attack by damaging the protein, cell membrane, DNA and internal systems of a microbe, causing it to die. This coating allows for a cleaner surface in between physical cleaning.



Uncoated



Coated

Tests & Certifications

Antimicrobial coating test

Test Name	Test Method
Antibacterial	ISO 22196:2011

Mechanical & chemical resistance test

Test Name	Test Method
Cross-cut- tape	ISO 2409:2020
Pencil hardness	ISO 15184:2012 up to 9H
Cleaning test	ISO 11998:1998 200 cycles
Ethanol-resistance	DIN EN 60068-2-70
Scratch Hardness	DIN EN ISO 1518-1 2N, 3N

Fire retardant test

Test Name	Test Method
Flammability	BS 476 1989 Part 6
Flame Spread Compliant with Buildings Regulations 2010	BS 476 1997 Part 7
Toxic Fumes and Smoke Density	BS6853 1999



Antimicrobial coating – Uses

Reduction of microorganisms and bacteria by 99.9%

Strains of bacteria such as MRSA, VRE and CRE cannot survive on surfaces protected by antimicrobial coating, with reduction of microorganisms and bacteria by 99.9%*.

Hard wearing

Antimicrobial coating measures as H9 hardness, making it harder than granite and resistant to scuffing.

Anti-fingerprint protection

The anti-fingerprint technology makes all surfaces easy to clean without the need to use harsh chemicals; a simple microfiber cloth is all that is required, without compromising the integrity of the antimicrobial and bacterial protection.

24 Hour protection

Permanently provides round-the-clock protection against unseen microbes.

UV stability to prevent colour fade

Antimicrobial coating has a unique formulation which will prevent UV degradation. This will protect the surface as well as preventing it from discolouring.

Specification

Antimicrobial coating - clear & transparent coating with permanent protection tested for antibacterial activity with up to 99.9% effectiveness* as per ISO 22196.

How does it help?

- Antimicrobial Phenolic protects substrates from microbial/bacterial contamination
- Permanent clear surface coating
- Easy to clean
- Easy to remove hand/finger prints from all metals
- High protection against corrosion and patina
- High UV and chemical resistance
- Detracts dirt and environmental staining
- Fluorine free, Bromine free
- 7 - 10 years life**, re-coating possible
- Promotes sustainability

Technical Data

Appearance	Colourless to pale clear liquid
Density	ca. 0.97 g/cm ³
Solid content	60 – 90 %
Solvent base:	n-butyl acetate
Flash point	< 21°C

Disclaimer:

*Antibacterial effectiveness observation from ISO 22196 lab tests

**Damage to surface of the product due to friction with sharp or rough metal surfaces or using harsh cleaning agents can significantly reduce the benefits of the coating or even lose the protection due to coating.

FAQs

How does antimicrobial coating work?

The molecular structure that makes up antimicrobial coating will encase the invisible to the eye peaks and troughs that form most surfaces – this when fully cured acts like a shield protecting surface and sustaining them for a long time.

Why do we apply antimicrobial coating? Can't we just not clean more often? Aren't fog machines adequate?

Antimicrobial coating is a permanent coating and will last for a long time. This is also one of the toughest coatings available and keeps the surface clean for longer.

Fog machine applicators throw out a mist which settles on surfaces. These surfaces can be compromised by cleaning and even by rubbing against them. Antimicrobial coating cannot be rubbed away.

Will the antimicrobial coating affect product aesthetics?

No, this is clear coat and so does not affect product aesthetics.

Is antimicrobial coating safe for use?

The finished product is fully cured and produces no hazardous elements. It will be beneficial for protection against microorganisms and is completely harmless to the environment.

What cleaning products do I need to clean a surface with antimicrobial coating?

The main requirement for cleaning surfaces is a microfiber cloth – however, we would always recommend following the Do's and Don'ts prescribed for cleaning.

How will I know whether the antimicrobial coating is still active?

For determining cleaning efficiency and microbial status of surfaces, either of below methods can be followed:

- Quick swab samples of coated surfaces can be collected and sent over to microbiological labs to test the presence of microbes.
- Alternately, AFP meter can be used for rapid detection of contamination and instant microbial monitoring.

Is the antimicrobial coating flammable?

No, the coating is not flammable as there is no alcohol content.

What is the life cycle of antimicrobial coating?

7 - 10 years life[†].

Disclaimer:

[†]Damage to surface of the product due to friction with sharp or rough metal surfaces or using harsh cleaning agents can significantly reduce the benefits of the coating or even lose the protection due to coating.

Cleaning Do's & Don'ts



For nearly all instances, just a dry microfiber cloth can be used to remove hand/finger prints or scuff type marks.

Coated surfaces can be cleaned with cleaners in the pH range 3 – 10 or soapy water.



Strong (mineral) acids or alkalis should be avoided and are also unnecessary as neutral cleaners are generally sufficient to clean coated surfaces.





Dorma and Kaba joining forces

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Subject to change without notice

Access Solutions



Door Hardware
- DHW



Interior Glass
Systems - IGS



Entrance Systems
- ENS



Lodging Systems
- LGS



Safe Locks
- SAL



Electronic Access &
Data - EAD



Mechanical Key
Systems - MKS



Service
- SVC

Wall Solutions



Movable Walls



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