



CCL Design

Antimicrobial Products

Transport

- <https://www.lner.co.uk/travel-information/coronavirus-travel-information/>
- <https://www.windsorexpress.co.uk/video/maidenhead/159181/gwr-and-swr-trial-sanitising-treatment-to-protect-trains-from-covid-19.html>
- Protects both passengers and staff from the transfer of microbes and bacteria on hard surfaces
- Compliments the need to frequently clean touch points (tables/doors) several times per day within journeys
- The film is removable and can be printed with safety information including a QR Code which will access your website to purchase tickets, seat reservations and other promotional items
- Can be applied to a number of surfaces either on train or in station

Summary

CCL Design in Scotland has developed a number of antimicrobial coatings for various applications where customers need to enhance bacterial, microbial, mould, fungal and viral protection.

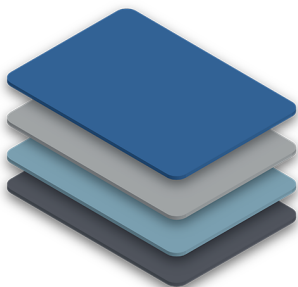
The mechanism for protection is based on disruption of cell DNA, which kills >99.99% of microbes and prevents them hosting viral infections. As a result, the final coatings currently meet the strict antimicrobial criteria for ISO 22196 which is the accepted global standard as tested by independent accredited laboratories.

The technology we use is a proven technique which operates from permanently embedded additives within the coating and provides continuous 24/7 antimicrobial activity over the lifetime of the coated film.

The active components within the coatings are all EPA, FDA and EFSA registered and the product is REACH compliant. It complies with and meets food and skin contact regulations. Furthermore, the active component used in these coatings has demonstrated significant antiviral activity against other fatty enveloped viruses, such as Influenza, Avian flu and SARS which are all similar surrogate viruses to COVID 19.

This product can be adhered to a wide range of surfaces including wood, plastic, glass, laminates and metals such as those commonly found in carriages and stations.

CCL Design uses state of the art digital printing and conversion processes to allow the product to be customised to specific customer requirements.



- Antimicrobial Coating
- Durable Film
- Permanent / Removable Adhesive
- Liner

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The Scientific Part

Antimicrobial Performance

The active component offers a high level of product protection by continuously inhibiting the growth of microbes on surfaces for very long periods of time. The technology will create a permanent barrier against the growth of bacteria, biofilm and moulds. The active component embedded in the material substrate is released via ambient moisture and enter the cell membrane. These active components then destabilise cell membrane, stop respiration and inhibit cell division, whilst blocking the replication of DNA.



Anti Viral Performance

Viruses depend on microbial hosts in order to be transported and remain active. By killing the host microbes, the active component also helps prevent the activity and spread of viral contaminants. E.Coli and MRSA are the most commonly tested organisms because they are classic examples of a gram positive and a gram negative bacterium. Efficacy against these bacteria is a strong indication of general coating antimicrobial performance.

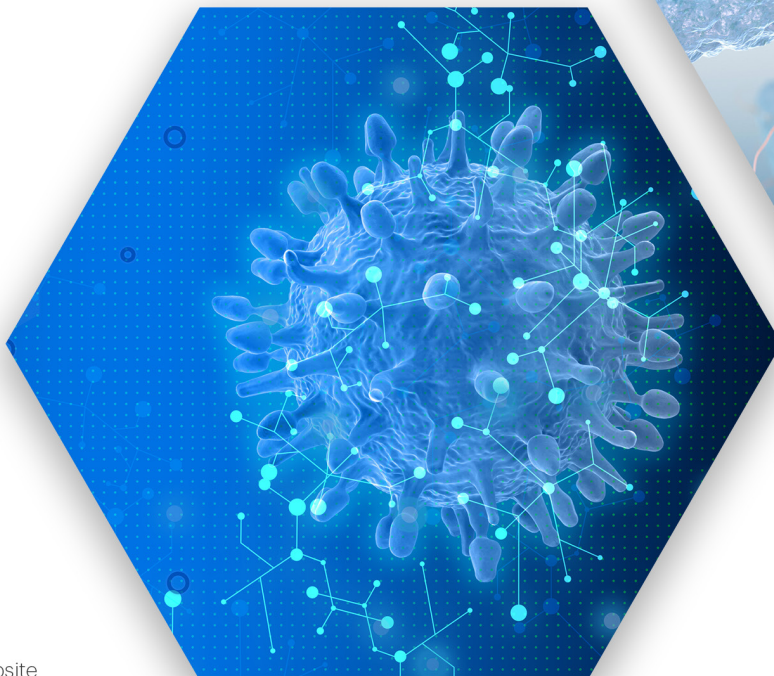


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