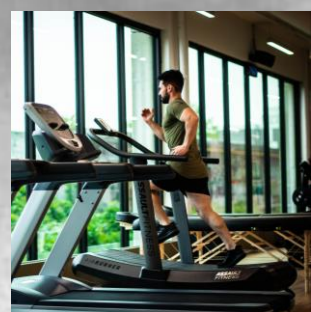
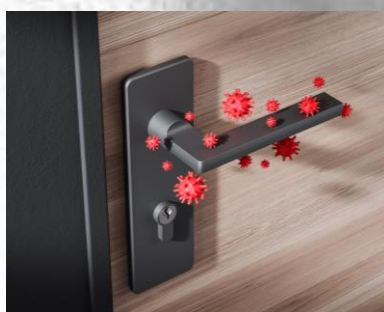


SANITIZING POWDER COATINGS.



The revolutionary series of powder coatings
MICROFREE®, with antibacterial action and
MICROFREE® V, with antibacterial and antiviral action.



MICROFREE® IS THE SANITIZING REVOLUTION IN THE POWDER COATINGS' MARKET.

Considering the recent health crisis, which has compromised modern economic and social contexts, ST Powder Coatings wanted to engage in the search for an innovative, practical and durable solution to create a series of powder coatings that could contribute to the reduction of pathogens on treated surfaces like no other powder coating would have been able to do before: here is **MICROFREE®**, the revolutionary series of powder coatings with antibacterial action and **MICROFREE® V** the series of powder coatings with antibacterial and antiviral action.



The antibacterial and antiviral properties of the MICROFREE® series **are activated immediately after coating and occur quickly in a short time**, continuously and constantly, automatically, without the need for manual cleaning or disinfection operations.

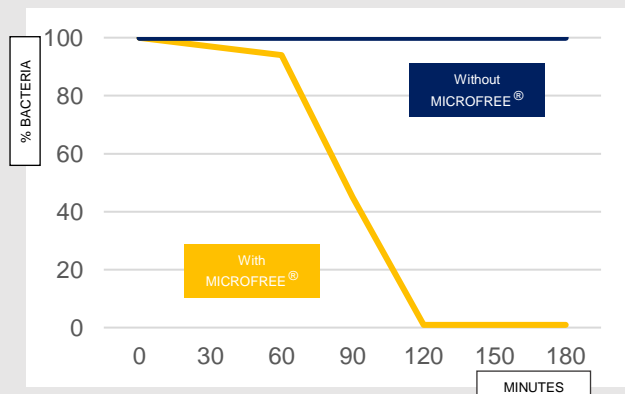
BY REDUCING THE BACTERIAL AND VIRAL LOAD,
THE RISK OF INFECTION
IS CONSEQUENTLY REDUCED.



The antibacterial efficacy of the MICROFREE® series has been tested and validated in an external ACCREDITED ILAC accredited laboratory in accordance with the ISO 22196: 2011 requirements against the following bacterial strains:

- Escherichia coli ATCC 8739
- Staphylococcus aureus ATCC 6538
- Pseudomonas aeruginosa ATCC 27853
- Enterococcus hirae ATCC 10541

ALREADY AFTER 2 HOURS (120 MINUTES), IT WAS DETECTED A REDUCTION OF THE BACTERIAL LOAD OF MORE THAN 99%.





The antiviral efficacy of the MICROFREE® V series, which integrates and does not replace the antibacterial efficacy characterizing the entire MICROFREE® series, has been tested and validated in an ISO 17025 accredited laboratory in compliance with the requirements of ISO 21702: 2019 and GLP (Good Laboratory Practice) against the following viral strains:

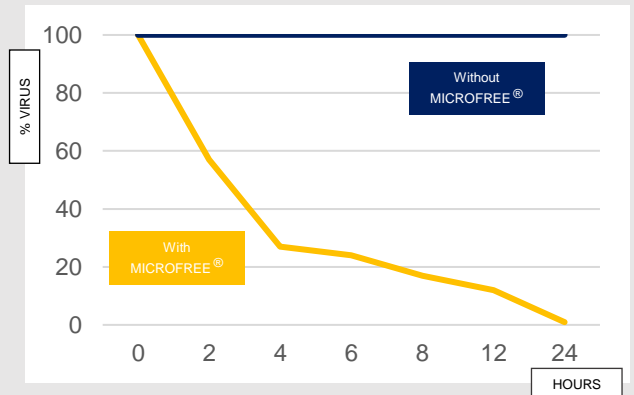
- Human coronavirus (OC43)
- Influenza A (H1N1)

VIRAL LOAD REDUCTION DETECTED AFTER 24 HOURS: MORE THAN 95%.

Also, in an ISO 17025 accredited laboratory in accordance with ISO 21702: 2019 requirements against the following viral strains:

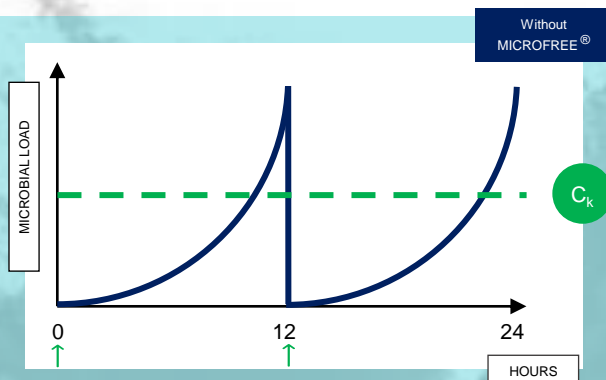
- SARS-CoV-2

VIRAL LOAD REDUCTION DETECTED AFTER 24 HOURS: MORE THAN 99%.

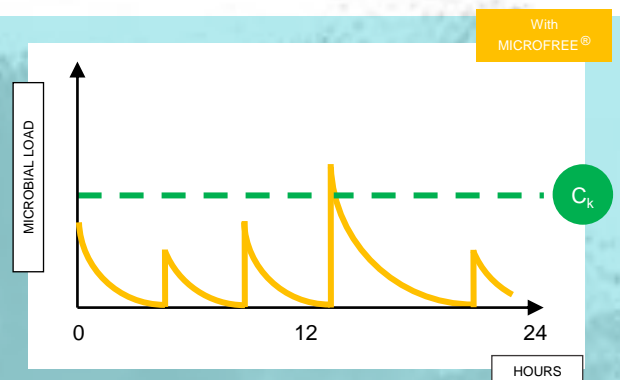


The MICROFREE® action is **permanent on the surface of the treated product**, helping to improve and support the achievable sanitizing result, in addition to the traditionally recommended good sanitation practices. It is in this context that the innovation developed by ST Powder Coatings fits: while cleaning operations act only in the contact area and on a temporary basis, thus offering a time frame within which the infectious risk can rise again between one cleaning cycle and the next one, MICROFREE®, on the other hand, has a lasting and uninterrupted effect, not subject to any decrease or dispersion over time.

MICROFREE® **resists and persists in its antimicrobial function even after regular cleaning operations that can be performed using the most common hygiene products for the home or for the outdoors**, providing antimicrobial properties to objects coated with this new series, reliably and for their entire life cycle. To guarantee durability over time, even after weathering, the MICROFREE® products formulated for exteriors have been subjected to the acceptance criteria provided for by the GSB standards: MICROFREE® powder coatings are therefore suitable for application on sports equipment, rides and garden games, furnishing elements and support structures.



Even after hygiene operations, ↑ microbes can accumulate over time and at certain concentrations (C_k) the risk of infection increases.



The reduction of the microbial population is constantly kept under control, avoiding critical propagation, thus reducing the risk of infection.

CONTACT US.

For any questions relating to powder coatings, our team is at your side to help and advise you.



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P o w d e r C o a t i n g s

M O R E T H A N C O L O U R

