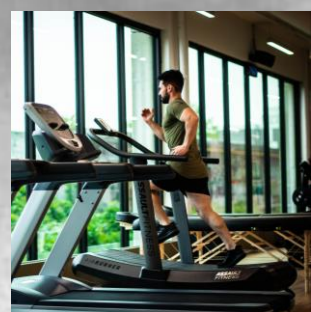
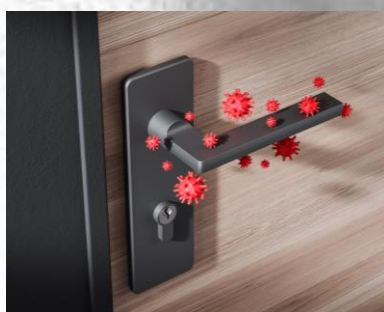


SANITIZING POWDER COATINGS.



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.

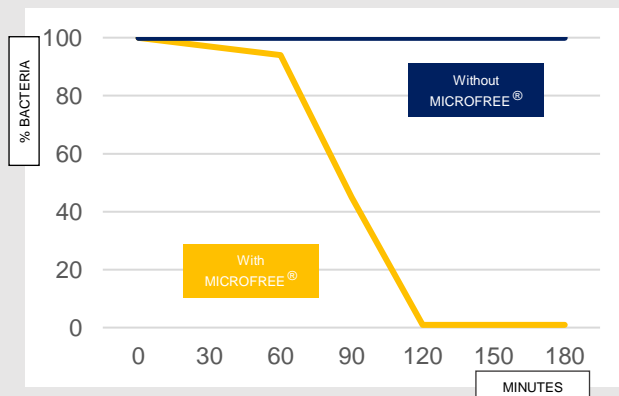
BY REDUCING THE BACTERIAL AND VIRAL LOAD,
THE RISK OF INFECTION
IS CONSEQUENTLY REDUCED.



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 of the entire MICROFREE® series**, has been tested and validated in an ISO 17025 accredited laboratory in compliance with ISO 21702:2019 and GLP (Good Laboratory Practice) against these viral strains:

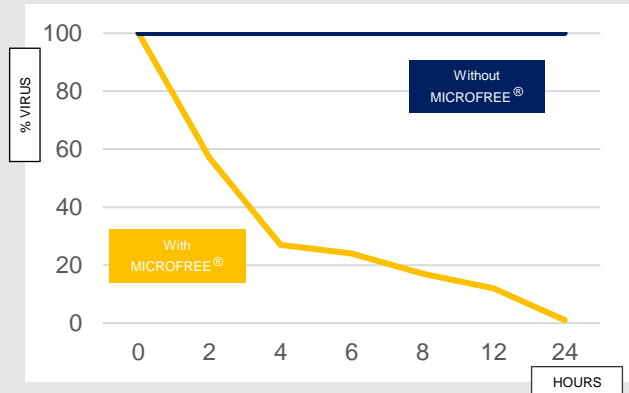
- Human coronavirus (OC43)
- Influenza A (H1N1)

**VIRAL LOAD REDUCTION DETECTED:
ABOVE 95%.**

In an ISO 17025 accredited laboratory compliant with ISO 21702:2019 requirements against:

- SARS-CoV-2

**VIRAL LOAD REDUCTION DETECTED:
ABOVE 99%.**



**REDUCTION OF
DRUG-RESISTANT BACTERIA LOAD
ABOVE 99%.**



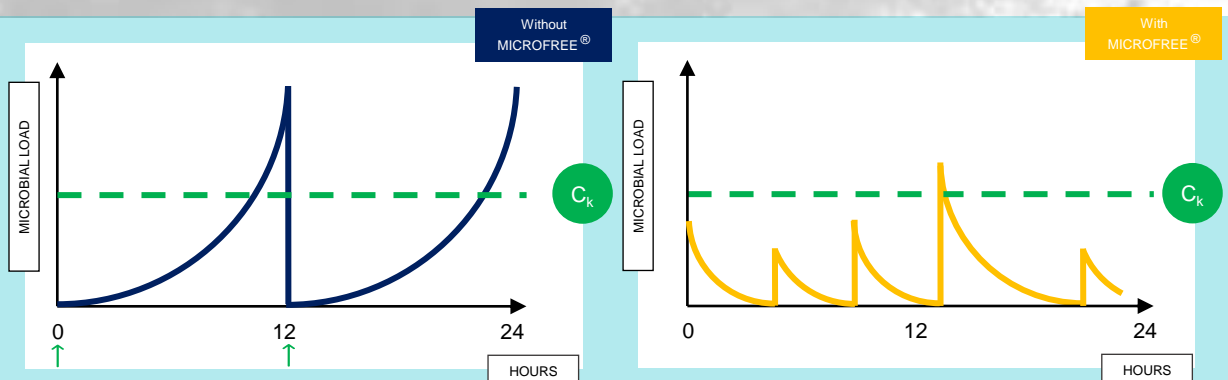
In an ACCREDIA-ILAC accredited laboratory compliant with ISO 22196:2011 requirements against:

- Escherichia coli NCTC 13351 ESBL
- Staphylococcus aureus MRSA ATCC 33591

The **MICROFREE® action is permanent on the surface of the treated product** and it helps to support the sanitizing result that can be achieved over time: while cleaning operations act only in the contact area and temporarily, thus offering a window for restoring the infectious risk between a cleaning cycle and the following one, MICROFREE® has a lasting and uninterrupted effect, not subject to any decrease or dispersion over time.

In addition, the antimicrobial function of **MICROFREE® resists and persists even after regular cleaning operations** with the most common household or outdoor hygiene products.

MICROFREE® products formulated for exteriors have undergone **the acceptance criteria established by the GSB standards**: for this reason, MICROFREE® powder coatings are also suitable for application on sport equipments, carousels 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

