



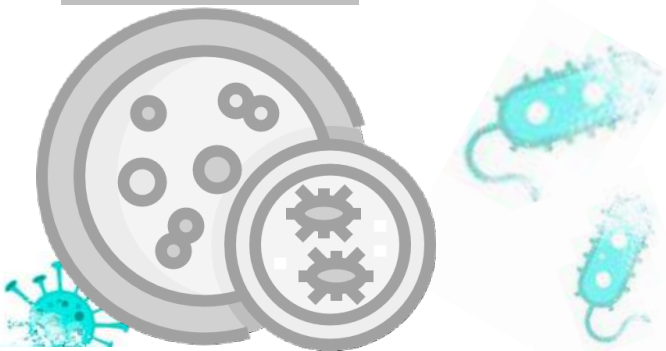
VFPROTECT is a **transparent antibacterial varnish** that permanently limits the proliferation of bacteria and also the **SARS COV-2 responsible for Covid-19**, and does not affect color and opacity when applied by screen-printing on non-porous substrates.

The antibacterial performance of VFPROTECT has been validated and tested by the IMSL, which is the microbiology laboratory responsible for developing the ISO 22196 method (adaptation of the Japanese method JIS Z2810).

The active ingredient of VFPROTECT has been tested according to ISO 22196 in 2011 **against** the following **common bacterial strains** shown on the left:

**MRSA (S.Aureus)**  
**Campylobacter**  
**E.coli**  
**Listeria**  
**MRSA**  
**Pseudomonas**  
**Salmonella**

*"It is proven to reduce the growth of these bacteria by up to 99.99%".*



VFPROTECT has demonstrated **to be effective against SARS COV-2** loads on nonporous surfaces. Tested according to ISO 21702 in 2019, we observed **reduction in SARS COV-2 of more than 73% after 6 hours and more than 90% after 24 hours** compared with a control sample. Our antiviral tests are performed in an independent laboratory in Italy accredited as a Serological Laboratory that operates in compliance with the international **Good Clinical Laboratory Practice Guidelines (GCLP, ISBN 978-1-904610-00-7)**. Furthermore, the viral reduction due to the printing of VFPROTECT on non-porous surfaces has been validated as working **against the Italian variant SARS-COV-2\_COV2019 ITALY/INMI1**.

## REGULATIONS

The active ingredient of VFPROTECT is registered with and approved by the following biocides legislations below:

- Biocidal Products Regulation (BPR)
- Food and Drug Administration (FDA)
- Environmental Protection Agency (EPA)

## HOW DOES OUR VARNISH WORK?

1



1) The antimicrobial additive in our varnish binds to **cell membranes** to disrupt growth.



2



2) The active ingredient in our varnish **interferes with the production of enzyme** by stopping the cell's energy production.



3



3) The active ingredient **interrupts the bacteria's DNA** by preventing DNA replication.

## ADVANTAGES

**Durable antimicrobial protection and SARS COV-2 limitation**

**Non-CMR varnish**

**Free of Nano-materials**

**Strong adhesion and high mechanical tolerance**

Active ingredient **without the need for light**

