

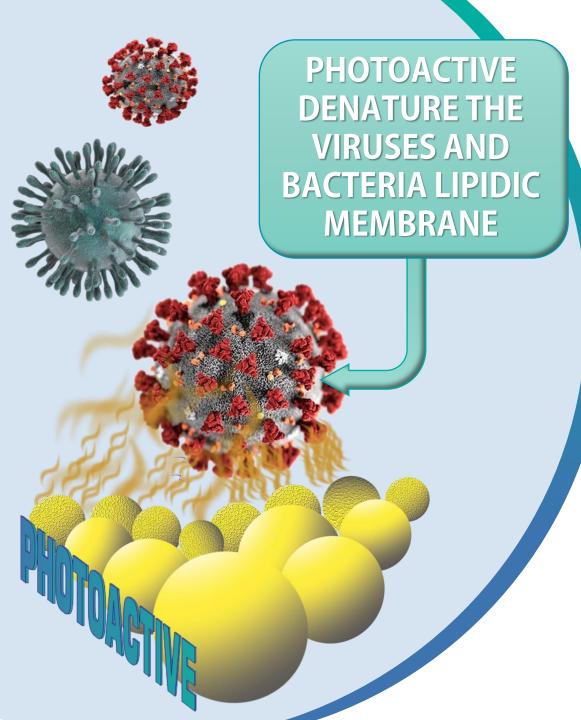


PhotoACTIVE

L&G Holding srl







HOW PHOTOACTIVE WORKS



THE PHOTOCATALYSIS

PhotoACTIVE performs an anti-microbial, anti-bacterial and anti-mold action, very effective, since instead of other anti-bacterial agents it does not kill bacteria or molds, but through oxidation-reduction reactions it decomposes them into gaseous substances that are dispersed in the surrounding environment not accumulating on the catalyst.

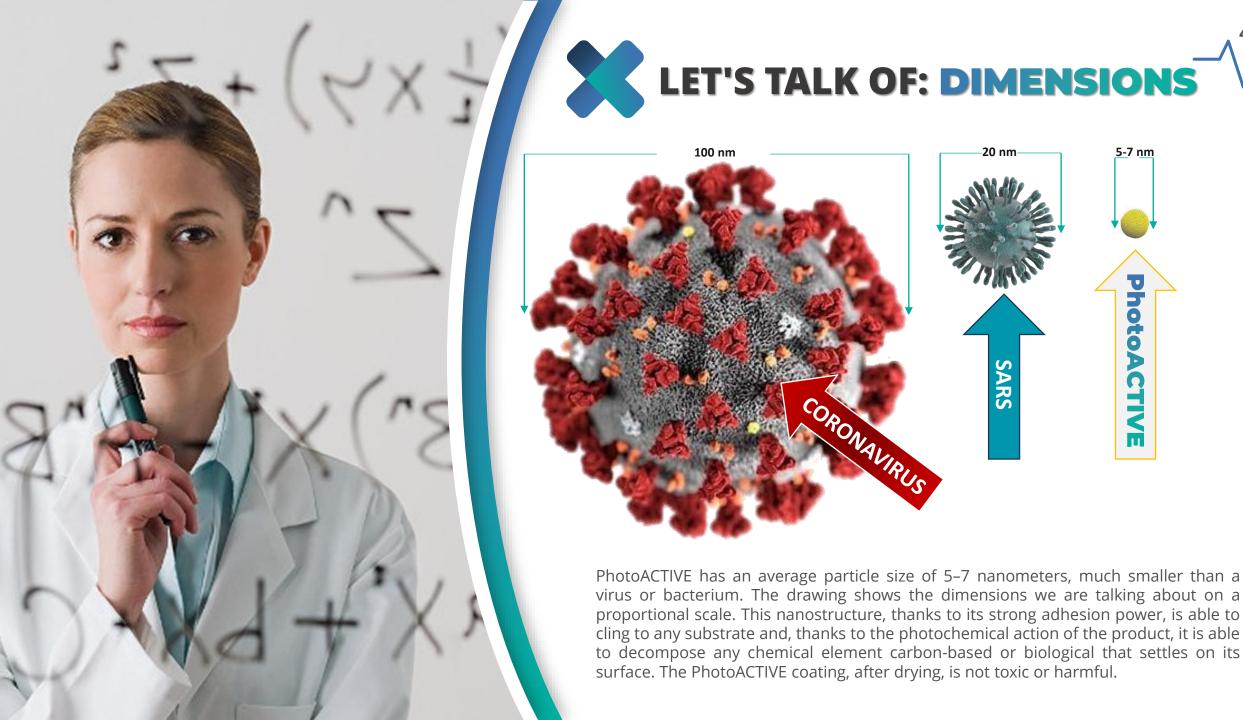
The decomposition of the bacteria takes place by means of the hydroxide radicals (OH•) and the oxygen anions (O2-) generated by the photocatalytic process which attack the lipid membrane of the bacteria decomposing it and preventing the aerobic respiration phase of the bacteria.

Therefore, the microorganisms die and are then gradually decomposed to obtain carbon dioxide and water which are released into the surrounding environment.

The destruction of molds, bacteria, viruses and other microorganisms allows the elimination of bad odors associated with their presence and allows the substrate to which the titanium dioxide is applied to be maintained at high hygienic conditions.

RELIABILITY

100%







PhotoACTIVE HOSPITAL DISINFECTION CHALLENGE



Hospital Acquired Infections are a \$30 Billion annual problem in the US alone. Four areas that are not typically disinfected well:

- 1. Windows
- 2. Ceilings
- 3. Beds
- 4. Light fixtures
- 5. Air Condition
- 6. Wall







OTHER APPLICATIONS



















Our Certification



Made by accredited laboratories

UNI-EN-ISO-11247

Degradation of nitrogen oxides in air

Analysis of NOx, NO, NO2

Results: 97% of NOx destroyed in 15 minutes. Good photocatalytic activity.

UNI-EN-ISO-6330

Antibacterial analysis on cloth

Staphylococcus aureus (ATCC 6538) Klebsiella pneumoniae (ATCC 4532)

Results: Good Effect (best result)

UNI-EN-ISO-20645

Antibacterial analysis on paints

Staphylococcus aureus (ATCC 25923) Escherichia coli (ATCC 25922)

Results: Good Effect (best result)

ANTI VIRUS

Test Made in Japan*

Influenza virus A

Results:

1°test: 99.987% of virus destroyed 2°test: 99.998% of virus destroyed

3°test: 99.985% of virus destroyed

UNI-EN-ISO-15457

Anti mold analysis

Renicillium purpurogenum Rhodotorula mucilaginosa

Results: No mycelium on specimen after 21 days. (best result)

UNI-EN-ISO-27447

Antibacterial analysis on tile

Staphylococcus aureus (ATCC 6538) Pseudomonas a. (ATCC 15442)

Results: Good Effect (best result)

- * Unregulated test. (There is no UNI-ISO test available)
- All analysis files available on request

Duration of the coating

APPLY PHOTOACTIVE FOR YOUR WELLNESS AND FOR YOUR HEALTH





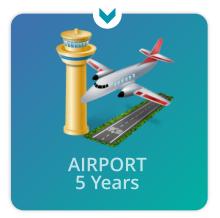














WE RECCOMAND

HPLV SPRAY SYSTEM

NOZZLE: AIR VOLUME: 2700 l/min. PRESSURE: AIR:

0,3 mm 0,31 bar (max.) HOT





Application Method

On the field PhotoACTIVE is usually applied in a 2 step process.

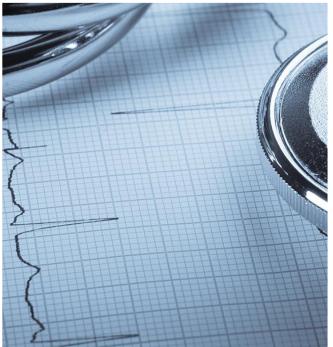
- 1. The surface is pre-cleaned
- 2. PhotoACTIVE is applied using HVLP spray guns, creating an incredibly thin layer only 40 nanometers thick.
- 3. Each liter of PhotoACTIVE covers up from 50 to 100 sqm.
- 4. Dries in seconds, cures in few minutes.

In Production PhotoACTIVE can be applied in a factory setting using a variety of spray techniques.

L&G provides all the information to apply the product.









We help people to get more **Healthy Life**

Our service





THANKS FOR YOUR ATTENTION

L&G Holding srl

Headquarters: Via SS 85 Km 36 Venafrana - 86070 - Macchia d'Isernia (IS) Italy

Registered Office: Via Molise 19 - 86170 - Isernia (IS) Italy

P.IVA C.F. EORI (V.A.T) IT00844580944

Tel. +39 0865 55278

Web: www.lgholding.it email: info@lgholding.it