



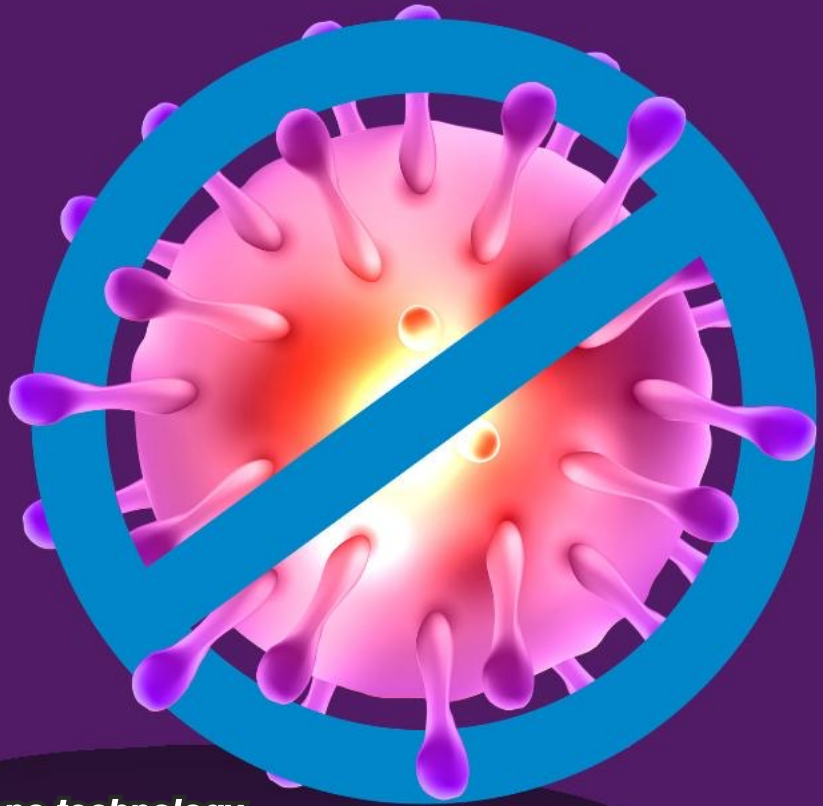
CeracoatDES



DUCT THAT...

***HELPS TO REDUCE
MICROBIAL BUILD-UP
ON SURFACES FOR
6 MONTHS!***





**MORE POWERFUL
THAN OTHER NATURAL
CLEANERS AND THOSE
WITH TOXIC CHEMICALS.**

CeracoatDES

CeracoatDES is the world's first eco-safe, natural 3D microbiota barrier to protect surfaces from cross-infection.

CeracoatDES is a three-dimensional microbiota barrier coating, created by mixing two natural ingredients: SiO₂ and citrox, both eco-friendly compounds.

Combining citrox and silicone dioxide (SiO₂) protects surfaces from bacteria, viruses or fungi, and is infused and encapsulated for stability and slow diffusion. By adding SiO₂ to the mixture, the product creates a barrier that prevents microbes from being absorbed and the citrox solution kills microbes on contact, keeping surfaces protected for up to six months.

CeracoatDES is proven to be highly effective against a wide range of bacteria, fungi and viruses, including SARS Cov I (betacoronavirus), Norovirus, Influenza, Swine Flu and Bird Flu and MRSA, E-Coli, Salmonella and Campylobacter. The product is proven to be an efficient viricide against both enveloped (coronaviruses) and nonenveloped viruses (Norovirus).



CeracoatDES also comes with a six-month manufacturer guarantee, that under normal conditions and correctly applied, the product will be free of defects and will protect the surfaces within a building and other environments, excluding floors due to higher levels of traffic.

SiO₂ technology meets internationally recognised standards of safety certifications.



Oil, water, static, scratch and abrasion resistant



Does not affect Microsoft software



Safe to human health and environment



Antimicrobial



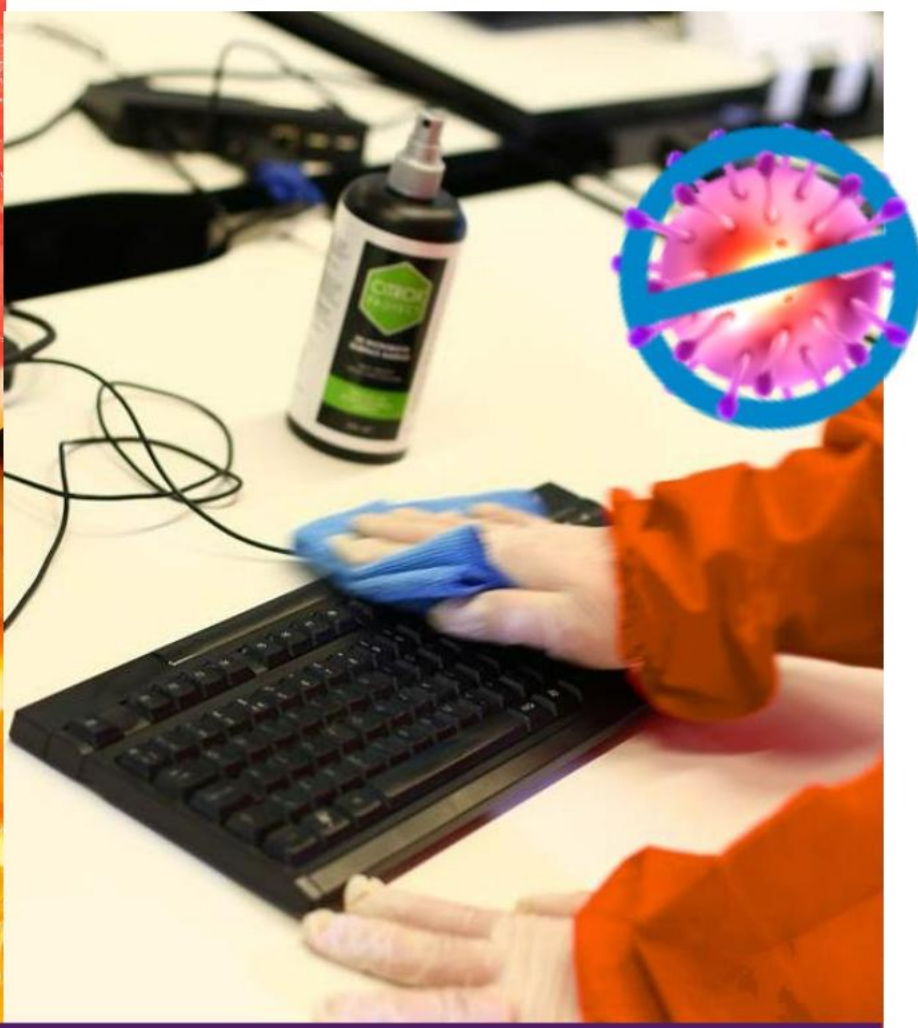
Citrox is a totally natural product with 100% Organic Ingredients, extracted from citrus fruits.

Why use CeracoatDES?

Environmental surfaces contaminated with pathogens can be sources of indirect transmission, and cleaning and disinfection are common interventions focused on reducing contamination levels.

Viruses are the most common cause of infectious disease acquired in the indoor environment in hospitals, schools, work environments and households causing considerable impact on human health.

COVID-19 has provided horrific insights into the mechanics of contagion and cross infection globally. Viruses are attached to droplets of moisture which move from the infected person via the air to high risk-touch points.





How does CeracoatDES work?

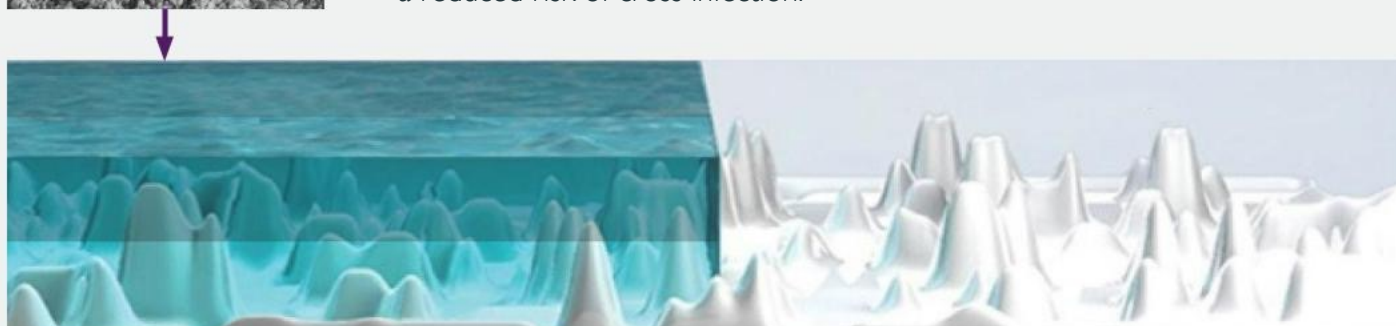
The microbiota barrier seal helps prevent cross-infection by creating a hostile environment for pathogens and biofilm.

CeracoatDES offers multiple modes of action including anti-adhesion, surface moisture control, surface roughness or smoothness and related molecular forces which inhibit the growth of micro-organisms such as viruses.



The image to the left is of a surface under a microscope which displays areas where bacteria can multiply.

By sealing these sub-atomic surface valleys and craters we create pathogen anti-adhesion points, which together with customised moisture repellent and related molecular forces, inhibit the growth of bacteria and viruses, resulting in a reduced risk of cross infection.

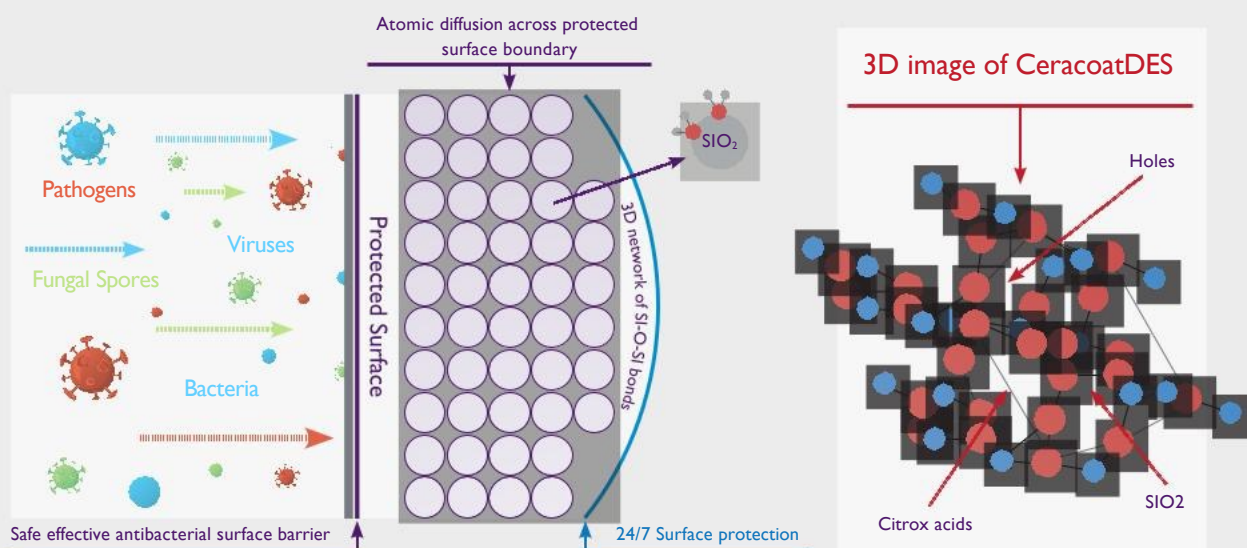


Coated with CeracoatDES

Un-coated

CeracoatDES 3D Microbiota Coating

Unique 3-Dimensional barrier coating free of nano particles





The Effectiveness of citrox

Citrox has been independently tested and found to be effective (i.e. killing pathogens with an efficiency rate of 5 logs-up to 99.9998%)

The list of organisms against which citrox has been tested and found to be effective is the following:

Bacteria	Viruses	Yeast and Fungi
<ul style="list-style-type: none">• Campylobacter jejuni• Candida albicans• Chaetomium golbosum• Dipiodianatalensis• Listeria Monocytogenes• MRSA (Clinical strain)• Mycobacterium Fortutium (NCTC 8573)• ProteusVulgaris• Pseudomonas Aeruginosa (ATCC 15442)• Salmonella Cholerasuis• SalmonellaTyphimurium (DT004)• Escherichia coli• F. sp. tuberosa• Fusarium sambucinum• Geotrichumcandidium• Klebsiella pneumonia• Lactobacillus pentoaceticus• Legionella pneumophila (NCTC 11192)• Staphylococcus Aureus (NCTC 6571)• Staphylococcus Pyogenes• Staphylococcus sp.• Streptococcus Faecalis	<ul style="list-style-type: none">• H5NI (Avian Influenza A)• Human Rhinovirus• Influenza A• Human ImmunodeficiencyVirus (HIV)• Urbani SARS• African swine fever• Foot & mouth disease• Gumboro virus• Herpes virus type 1• Herpes virus type 2• Herpes zoster• Hepatitis A, B & C• SARS Cov I	<ul style="list-style-type: none">• Aspergillus oizae• Aspergillus flavus• Aspergillus niger• Aspergillus terreus• Botrytis cinerea• Candida albicans• Candida glabrata• Chaetoniumglobosum• Cladosporium• GeotrichumCandidium• Collectotricum sp.• Fusarium sp.• Mucor sp.• Penicillium sp.• Penicillium Digitatum• Penicillium Funiculosum• Penicillium Italicum• Penicillium Roqueforti• Phomopsis Ortl• Pullularia pullulans• Pythium sp.• Trichophyton interdigitale• Trichophyton mentagrophytes
	<div>Protozoa</div> <ul style="list-style-type: none">• Histomonasmeleagradis• Giardia lamblia• Entamoeba histolytica• Blastocystis hominis <div></div>	

SiO₂ Test Results

✓	Has Testing proved that SiO₂ Technology is Antimicrobial? Test: AATCC Method 100-2004 on following microbes: S. epidermidis, Corynebacterium xerosis, Bacillus subtilis, Streptococcus pneumoniae, Staphylococcus aureus, Escherichia coli, Pseudomonas aeruginosa
✓	Has Testing proved that SiO₂ Technology is Water Resistant? Tests: AATCC Method 22 (ISO 4920) and AATCC 42-2013
✓	Has Testing proved that SiO₂ Technology is Oil Resistant? Tests: AATCC Method 118-2007 and ISO 14419-2010
✓	Has Testing proved that SiO₂ Technology is Breathable? Test: ASTM E96: Breathability rating (MVT)
✓	Has Testing proved that SiO₂ Technology is Washable over 40 times? Tests: AATCC 1355,20,40
✓	Has Testing proved that SiO₂ Technology is Abrasion Resistant using Martindale Test Method? Test: ISO 12947-2:1998
✓	Has Testing proved that SiO₂ Technology is Abrasion Resistant using Taber Test Method? Test: ASTM D3389-15
✓	Has Testing proved that SiO₂ Technology is Flame Resistant on Textile? Test: ASTM D6413 / D6413M13b
✓	Has Testing proved that SiO₂ Technology Offers Thermal Protection on Textile? Test: ASTM D 4108-87
✓	Has Testing proved that SiO₂ Technology is Static Resistant? Test: AATCC 76-2011
✓	Has Testing proved that SiO₂ Technology is Scratch and Abrasion Resistant? Tests: ASTM C1624 and Nano Scratch Test
✓	Has Testing proved that SiO₂ Technology Protects Against Corrosion? Test: ASTM B117
✓	Has Testing proved that SiO₂ Technology Protects Against UV and Weathering? Test: ISO 4892-2
✓	Has Testing proved SiO₂ Technology is Hard? Tests: JIS K 5400, ASTM E384-11e1 and ASTM D3363
✓	Has Testing proved SiO₂ Technology has Elastic Properties in its Hardness? Test: ASTM 2546
✓	Has Testing proved that SiO₂ Technology is Safe to Human Health and Environment? Tests: RoHS 2015/863 and REACH compliant (EC) No 1907/2006
✓	Has Testing proved that SiO₂ Technology is Dermatologically Tested as Skin Safe? Test: HRIPT (Human Repeat Insult Patch Testing) with 50 subjects over 6 weeks.
✓	Has Testing proved that SiO₂ Technology is a Non-Irritant and Hypo-Allergenic? Test: HRIPT (Human Repeat Insult Patch Testing) with 50 subjects over 6 weeks. Tested under the control of a Dermatologist.
✓	Has Testing proved that SiO₂ Technology Does Not Affect Microsoft Software? Test: Microsoft Tested and Approved



Confirmed EN Standards



Confirmed Standard: EN 13704

Chemical disinfectants - Quantitative suspension test for the evaluation of sporicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas.



Confirmed Standard: EN 1276

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.



Confirmed Standard: EN 1650

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas.



Confirmed Standard: EN13697

Chemical disinfectants and antiseptics - Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas. (includes Amendment :2019)



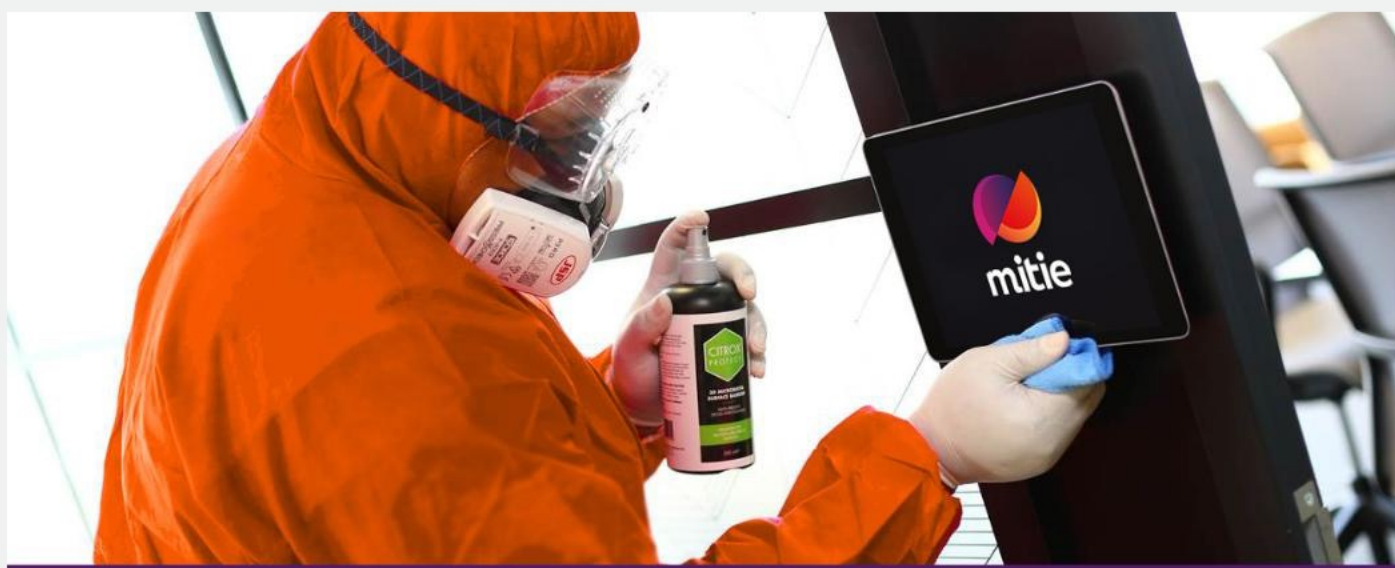
Confirmed Standard: EN13727

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of bactericidal activity in the medical area.



Confirmed Standard: EN13624

Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity in the medical area.



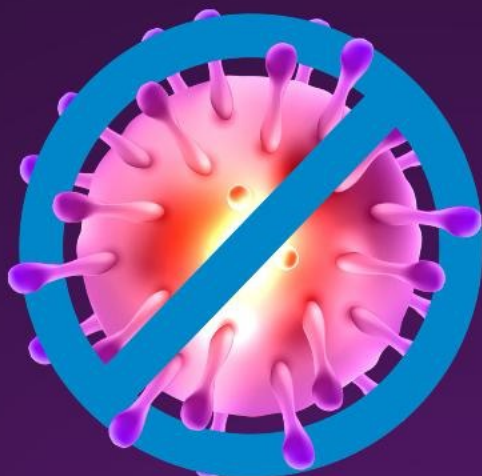
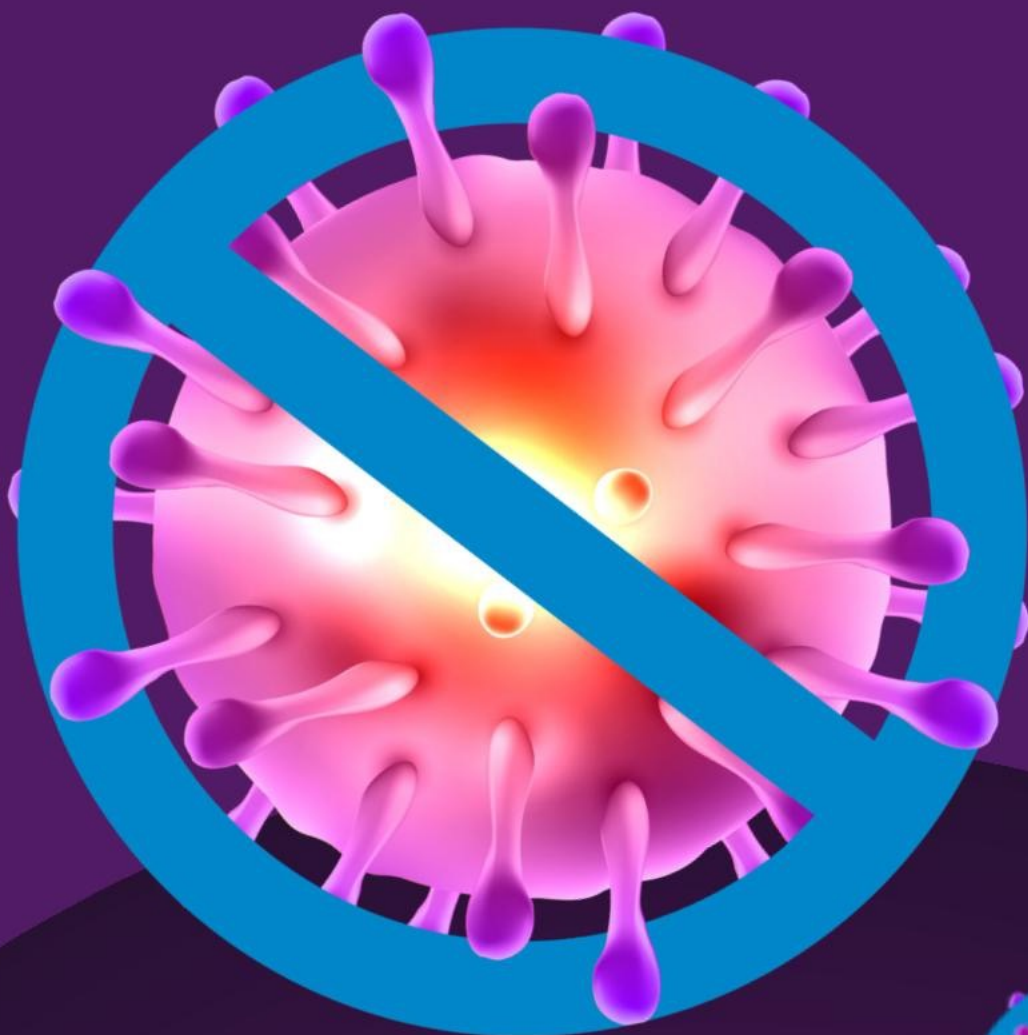
Protecting Your Business

CeracoatDES is suitable for every sanitising application of non-porous surfaces, in any environment.
(Excluding floors)

Therefore, it could be used in numerous sectors, from retail buildings to corporate offices or leisure and entertainment facilities, such as restaurants, to create safe microbial free environments.


We'd welcome any opportunity to discuss how we can help protect your people and assets, creating microbial free spaces and environments.







CeracoatDES

A photograph of a modern office interior. The office has white desks, black chairs, and large windows in the background. The floor is light-colored. The text is overlaid on the bottom right of the image.

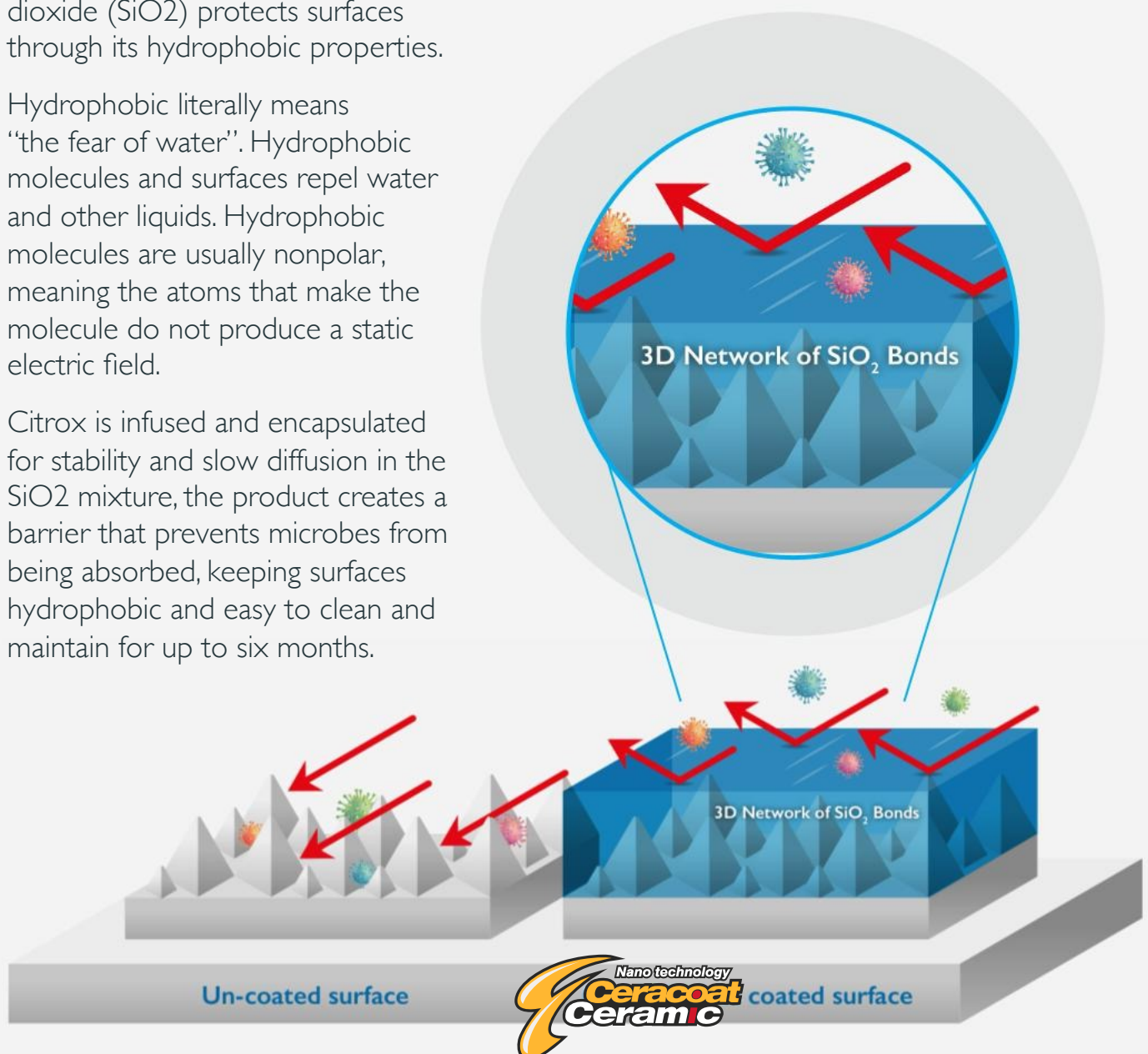
CeracoatDES is the world's
first eco-safe, natural 3D
barrier to protect surfaces
from cross-infection.
Active for 6 months

CeracoatDES is a three-dimensional barrier coating, created by mixing two natural ingredients: SiO₂ and citrox, both eco-friendly compounds.

Combining citrox and silicone dioxide (SiO₂) protects surfaces through its hydrophobic properties.

Hydrophobic literally means “the fear of water”. Hydrophobic molecules and surfaces repel water and other liquids. Hydrophobic molecules are usually nonpolar, meaning the atoms that make the molecule do not produce a static electric field.

Citrox is infused and encapsulated for stability and slow diffusion in the SiO₂ mixture, the product creates a barrier that prevents microbes from being absorbed, keeping surfaces hydrophobic and easy to clean and maintain for up to six months.



Where can
CeracoatDES
be used?



