

# **XELEX ANTIMICROBIAL PLUS (XAP)**



**LONGTERM  
ANTIMICROBIAL  
PROTECTION**

**A Specialist Disinfection Product**

Tested and Approved against major harmful bacteria, viruses, mould and spores. Residual kill lasts for up to 60 days and longer under certain conditions

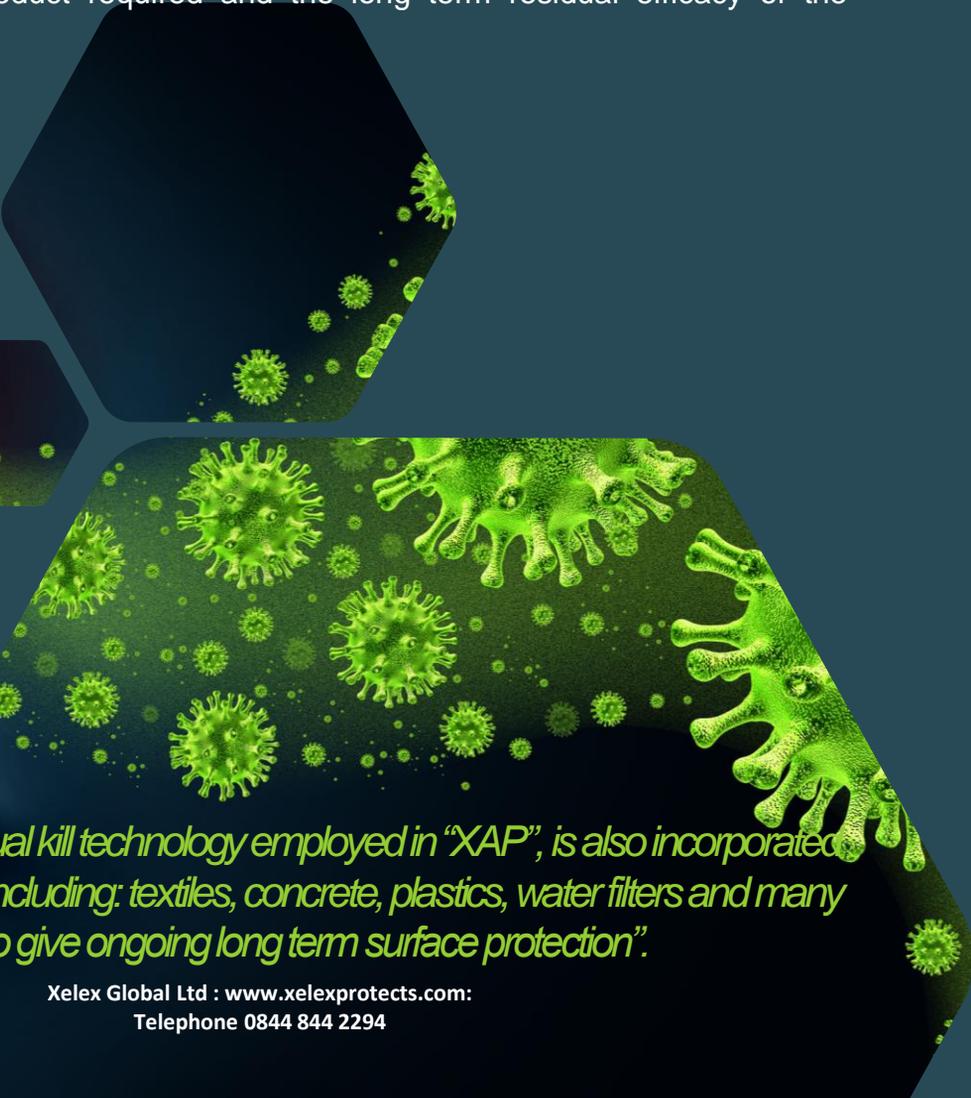
*Xelex Global Ltd, a private British company, is a distributor and manufacturer of specialist water treatment and disinfection products that utilise the very latest technologies, giving the user long term residual surface protection.*

Xelex Antimicrobial plus "XAP" is a unique long lasting Antimicrobial product which brings the highest level of hygiene and microbial control for people and their environments. "XAP" achieves ground breaking results by using novel, safer technologies applicable for use in every industry sector and in everyday life.

Manufactured to be environmentally safer "XAP" offers the most extensive control of micro organisms seen anywhere in the world.

"XAP" delivers what no other technology can, water based broad spectrum anti-microbial control together with long lasting residual biocidal efficacy for your surfaces.

"XAP" contains no alcohol. All this delivered in an environmentally safer way allowing users to achieve significant cost benefits, due to both the low concentrations of product required and the long term residual efficacy of the products.



*"The long term residual kill technology employed in "XAP", is also incorporated into many materials including: textiles, concrete, plastics, water filters and many liquids, to give ongoing long term surface protection".*

Xelex Global Ltd : [www.xelexprotects.com](http://www.xelexprotects.com):  
Telephone 0844 844 2294

## *Xelex Antimicrobial Plus (“XAP”) Technology*

### *Longterm residual antimicrobial surface protection*

The initial high level microbial kill is given by a molecular matrix which incorporates a number of biocides. These biocides are well known antimicrobials that act synergistically to kill microorganisms. This synergy allows the biocides to be used in low concentrations that are safer to handle. In addition, the nature of the matrix weakens and predisposes microbial cells to attack by the biocides. Once the surface has been treated to kill and remove the resident microbial population, the unique technology of “XAP”, forms a permeable co-valent mono layer on the surface which, when dry, continues to kill microorganisms for many months.

There are two main fundamental types of antimicrobial agent, ‘unbound’ anti-microbials and ‘bound’ anti-microbials. “XAP” is the only product to contain both these agents where the efficacy has been verified. The water based technology, “XAP” incorporated in Xelex Antimicrobial Plus, forms an invisible protective permeable mono layer on any type of surface, delivering a unique antimicrobial barrier that kills bacteria on contact and offers long-term protection.

The technology acts as a magnet-type force to attract and draw the bacteria onto it. When a bacterium comes in contact with the coating, the cell walls are ruptured killing the micro-organism. The technology developed attracts and kills bacteria in a way that is described as a physical kill by rupturing the cell wall. This offers commercial potential to protect everyday surfaces, materials and fabrics, and our products have never been shown to allow or cause microbial adaptation, resistance, mutation or migration.

This advanced innovative technology comes in the form of an easy to use liquid and leaves a coating on the surface. The coating has been rigorously tested in British laboratories and has been shown to destroy up to 99.999999% of bacteria, mould, fungi and virus including spore-forming organisms such as C.difficile.

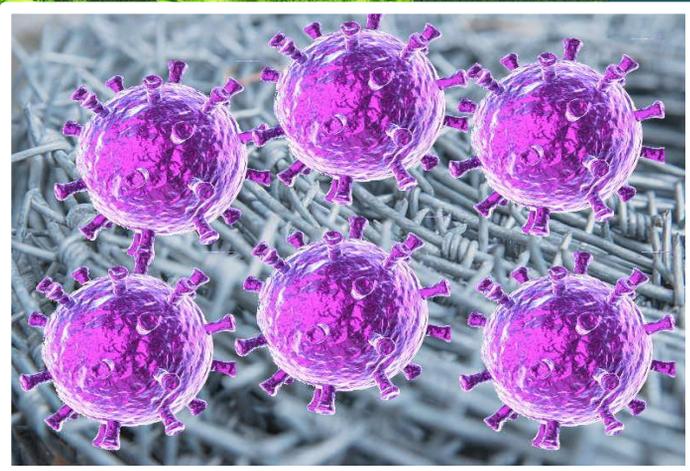
Exhaustive testing of “XAP” has resulted in an impressive list of approvals, both for the initial biocidal kill and the long term residual biocidal efficacy. These tests demonstrate the quality and robustness of the product and its ability to continue to satisfy the ever increasing demands of health and hygiene assurance.

*Designed as a dual-action performer with both micro-biocidal and micro-biostatic properties, our key product ‘Xelex Antimicrobial Plus’ offers a real alternative to replace conventional sanitizers and disinfectants, which are powerless against many of the emerging superbugs. The ‘Xelex Antimicrobial Plus’ formulation offers the industry’s only product to provide long term residual kill on the surface of fabrics or hard surfaces when dry.*

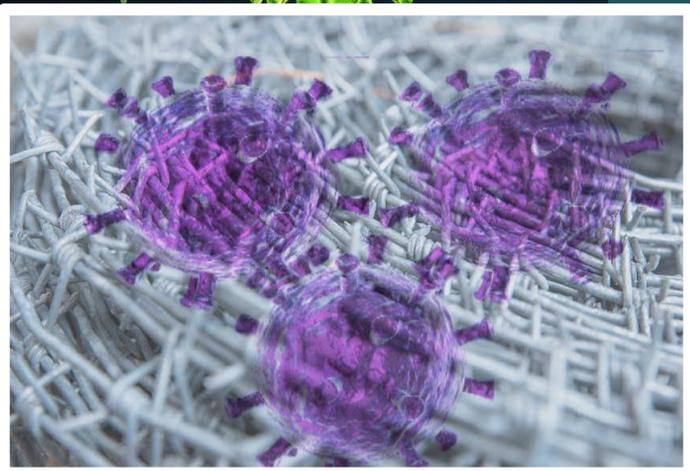
## How does Xelex Antimicrobial Plus "XAP" technology work?



When applied to a surface, the blend of biocides works synergistically to rapidly kill the resident microbial population. An anti-microbial barbed wire type protective coating then bonds invisibly to the surface, be it solid or fabric.



The Bacterial cell is negatively (-) charged. The antimicrobial molecule is positively (+) charged. The bacteria are statically drawn onto the surface coating.



Once the cell wall has been ruptured by the Protective coating the Bacteria cell dies..

## *Xelex Antimicrobial Plus "XAP"* *Features:*

A ready to use liquid for the simultaneous protection and disinfection of surfaces.

Comprehensive biocidal spectrum being bactericidal, fungicidal, sporicidal and viricidal.

Intensive protective properties with excellent material compatibility.

Cost effective due to low in use concentrations.

Increased surface bio-security due to long term residual biocidal effect.

Very low chemical hazard.

Non-corrosive.

## *Chemical Composition:*

Xelex Antimicrobial Plus "XAP" is based on a synergistic blend of biocides bonded to a complex matrix in an aqueous solution.

## *Microbial Effectiveness:*

Xelex Antimicrobial Plus "XAP" is effective against bacteria, viruses, spores, yeasts, mould and fungi and has been tested to EN's: 1275, 1276, 13704, 13697 and 14476, as well as independent long-term residual tests. Please contact Xelex Global Ltd for information regarding surface residual biocidal efficacy test protocol and results.

## *Toxicology:*

Xelex Antimicrobial Plus "XAP" is non-toxic and non-hazardous.

## *Regulatory:*

Xelex Antimicrobial Plus "XAP" only uses components which are acceptable within the global regulatory framework. Our active ingredient is registered with ECHA (European Chemicals Agency) for use in almost all locations and surfaces from textile to hard non-porous surfaces.

*Technical Specifications  
"XAP" when dried on a  
surface forms an invisible  
protective coating, gives  
long term residual biocidal  
efficacy.*

*The product is characterised by its  
intensive protective properties and  
excellent material compatibility. Xelex  
Antimicrobial Plus "XAP" incorporates a  
neutral detergent and a blend of biocides at  
low concentrations which give surface  
safety when used regularly on account of  
its excellent resistance to microbial  
recolonization after application.*

# *Xelex Antimicrobial Plus “XAP”, provides a number of key benefits and advantages over traditional sanitisers and disinfectants.*

*Our unique technology, when dry on a surface, be it a hard or fabric, will continue to kill microorganisms for many months.*

*“XAP” may be incorporated into other materials e.g. textiles, concrete, plastics, water filters and many liquids, to give ongoing microbial protection.*

- Safer to use - Xelex Antimicrobial Plus “XAP” carries no hazard classification so handling issues are minimal.
- Highly active against biofilm residues interfering with the biofilm structure. The neutralising of the biofilm surface attachment properties makes cleaning easier.
- Environmentally friendlier utilising safer chemicals in an easy to use format.
- Fully biodegradable to EU standards.
- Binds to treated surface preventing surface attachment of bacteria reducing biofilm growth.
- Non-corrosive and safe to use on all surface types.
- High level of anti-microbial activity against all bacteria, viruses, spores and fungi.
- Biocide formulation prevents the development of resistant organisms.
- Long term residual effect based on innovative development of the product matrix, ensuring once sanitised, the surface remains safe.

Sanitising Products	Xelex Antimicrobial Plus efficacy against other sanitisers and disinfectants							
	Residual	Broad Spectrum	Damages Surfaces	Hazardous To Users	Flammable	Obnoxious Odours	Unstable	Slow Kill Time
Alcohol	No	No	Yes	Yes	Yes	Yes	No	Yes
Chlorine	No	Yes	Yes	Yes	No	Yes	Yes	No
Glutaraldehyde	No	Yes	Yes	Yes	No	Yes	Yes	No
Peroxygen	No	Yes	Yes	Yes	No	No	Yes	No
Iodine	No	Yes	Yes	Yes	No	No	Yes	Yes
Phenol	No	Yes	Yes	Yes	Yes	Yes	Yes	No
QAC	No	Yes	No	Yes	No	No	No	No
XAP	Yes	Yes	No	No	No	No	No	No

*Xelex Antimicrobial Plus is known to be effective against*

**BACTERIA**

Acinetobacter baumannii  
Campylobacter jejuni  
Enterobacter aerogenes  
Enterococcus faecalis, Vancomycin-Resistant (VRE)  
Escherichia coli (E. coli)  
Klebsiella pneumoniae, Carbapenem-Resistant  
ESBL producing Klebsiella pneumoniae  
MDR Klebsiella pneumoniae  
Pseudomonas aeruginosa  
Salmonella enterica  
Staphylococcus aureus  
Staphylococcus aureus, Methicillin-Resistant  
Stenotrophomonas maltophilia  
Streptococcus pneumoniae, Penicillin-Resistant  
Streptococcus pyogenes

**VIRUS**

Avian Influenza A Virus (H5N1)  
Cytomegalovirus  
Hepatitis B Virus  
Hepatitis C Virus  
Herpes Simplex Virus Type 1  
Herpes Simplex Virus Type 2  
HIV-1  
Human Coronavirus  
Influenza A Virus (H1N1)  
Influenza A Virus/Hong Kong  
Influenza B Virus  
Norovirus  
Respiratory Syncytial Virus (RSV)  
Rhinovirus  
Rotavirus

COVID-19

*For sales enquiries contact us 0844 844 2294*

*Schools, Nurseries,  
Education*

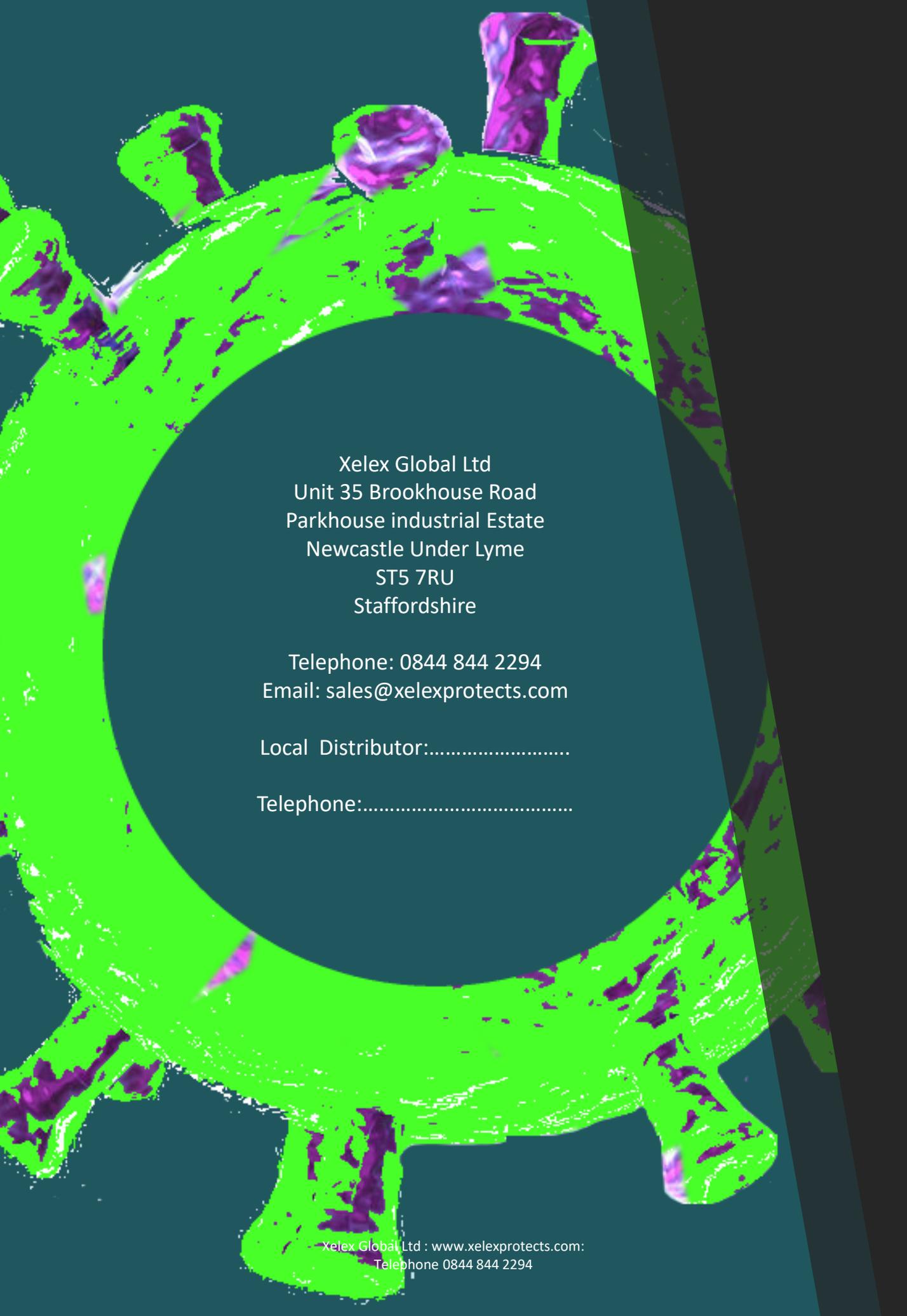
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*Medical, Health, Care Homes  
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Vehicle Showrooms*

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