

 **Virkon®**
PROFESSIONAL

**Broad Spectrum Virucidal Disinfectant
for Veterinary Practices**



Virkon® PROFESSIONAL

As a veterinary practice, you will be well aware of the disease challenges caused by bringing together numbers of sick animals.

Disease can be spread via cross contamination of body fluids and particles directly from animal to animal, animal to human or through indirect carriers such as contaminated surfaces, bedding, feeding bowls or drinkers.

Using Virkon® PROFESSIONAL broad spectrum disinfectant is an essential tool for continuous biosecurity processes within your veterinary practice. It is independently proven effective against key companion animal disease-causing organisms such as; Canine parvo-virus (CPV), Feline leukaemia virus (FeLV), and animal origin MRSA.

For Pets & Vets



Independently proven broad spectrum efficacy.

LANXESS is committed to evolving chemistry, safety, and stewardship within all areas of animal health hygiene, and has invested heavily in the performance and safety characteristics of Virkon® PROFESSIONAL.

Virkon® PROFESSIONAL has a significant number of safety, toxicological, materials compatibility and efficacy supporting studies and test reports.

The broad spectrum efficacy of Virkon® PROFESSIONAL has been independently proven against:

- Over 100 strains of viruses in 22 viral families
- Over 400 strains of bacteria
- Over 60 strains of fungi and yeasts

These studies were conducted using a wide range of contact times, temperatures and organic challenge levels. Virkon® PROFESSIONAL is UK DEFRA Approved for Foot & Mouth Disease (FMD), Swine Vesicular Disease (SVD), Diseases of Poultry (DoP), and General Orders (GO)*

* Virkon® PROFESSIONAL is UK DEFRA Approved at the dilution rates of 1:1300 for FMD, 1:100 for SVD, 1:280 for DoP, and 1:100 for GO.



Formulated broad spectrum killing power

Formulated to overcome the problems of limited spectrum and limited activity exhibited by other disinfectants, Virkon® PROFESSIONAL achieves deactivation and destruction of the target organism through a broad spectrum, non-selective range of oxidation reactions. Unlike other disinfectant chemistries, Virkon® PROFESSIONAL does not exert a specific toxicological effect on the target organism and is proven to kill pathogens in seconds.

Superior Operator Safety

Extensive investment has been made to assess the safety of Virkon® PROFESSIONAL users. The assessment demonstrates that Virkon® PROFESSIONAL is not corrosive to skin and does not cause sensitisation. A typical in-use dilution of 1:100 (1%) has additionally been shown to be non-irritating to skin and eyes, and is not a sensitising agent.

Environmental Profile

The oxygen-based chemistry of Virkon® PROFESSIONAL contains simple inorganic salts and organic acids. The active ingredient decomposes by a variety of routes within the environment, in soil and in water, breaking down to form the naturally occurring substances potassium salts and oxygen. The major organic components are classified as readily biodegradable, according to OECD and EU test methods.

Virkon® PROFESSIONAL is not considered persistent in the environment, according to the standard European process for the classification and labelling of chemical preparations.

Independent studies have shown that diluted Virkon® PROFESSIONAL should not, when used as directed, pose any threat to sewage treatment facilities.



Veterinary Practice Biosecurity

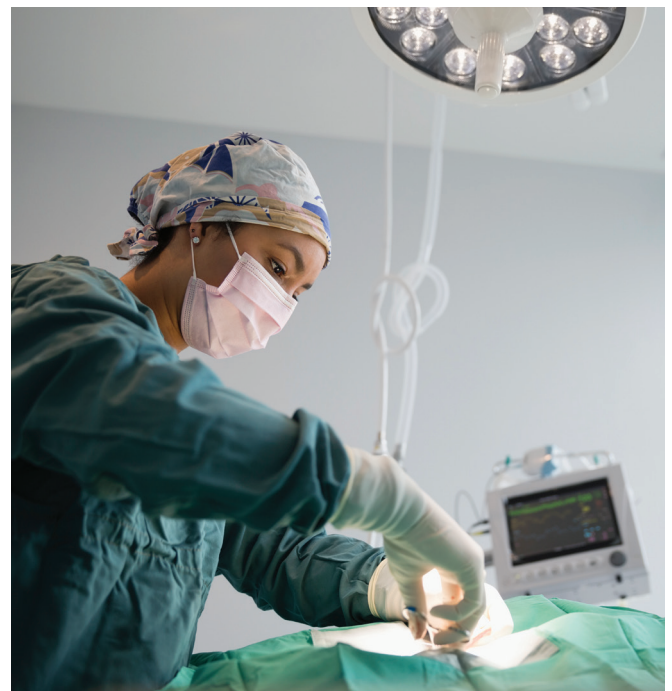
Biosecurity, in other words, excluding disease-causing organisms from a given environment, is the most effective form of protection against cross contamination and the spread of infection within a veterinary practice.

The veterinary clinic can be split into two distinct areas requiring different levels of biosecurity. Low risk and high risk areas:



Low Risk Areas

Low Risk Areas such as waiting rooms, floors, corridors and cupboard fronts must be cleaned and disinfected with a Virkon® PROFESSIONAL disinfectant solution at least twice daily. Other areas, such as desks and walls, should be cleaned and disinfected at least weekly.



High Risk Areas

High Risk Areas such as operating and consulting rooms and tables, and any area where body fluids have been spilt, must be thoroughly cleaned and then disinfected using Virkon® PROFESSIONAL broad spectrum virucidal disinfectant after each consultation.



Virkon® PROFESSIONAL Application & Use Guidance

Easily applied using a mop, cloth, sponge or spray, Virkon® PROFESSIONAL is ideal for the disinfection of veterinary hard surfaces and equipment, including floors, walls and consulting tables, non-medical equipment, cages, feed and water bowls, leads and toys.



Disinfection Task	Dilution Rate	Application
Hard surface disinfection	1:100 10 grams of Virkon® PROFESSIONAL powder to every litre of water	Apply disinfectant solution using a floor mop, cloth, sponge or via a spray applicator (e.g. trigger bottle or knapsack sprayer). Recommended contact time 10 minutes - see pages 6 & 7 for detailed contact times.
Equipment & utensil disinfection	or One 5g Virkon® PROFESSIONAL tablet to every 500ml of water	Equipment & utensils can either be submerged and washed in disinfectant solution or sprayed and then wiped clean with a cloth or sponge. Rinse disinfected equipment & utensils with clean water after 10 minutes when materials compatibility is of concern.





Proven Broad Spectrum Efficacy

Virkon® PROFESSIONAL is independently proven highly effective against a wide range of organisms (virus, bacteria, fungi and yeast) that affect companion animals, including:

Virucidal Activity Data

Pathogen tested	Family	Dilution Rate	Contact time (mins)	Pathogen tested	Family	Dilution Rate	Contact time (mins)
Avian Influenza H5N1 Avian Influenza H9N2	<i>Orthomyxoviridae</i>	1:800 1:1000	5	Equine viral pneumonitis	<i>Herpesviridae</i>	1:100	10
Canine Adenovirus (CAV-1) (Infectious canine hepatitis)	<i>Adenoviridae</i>	1:100	10	Feline calicivirus (FCV)	<i>Caliciviridae</i>	1:100	10
Canine Distemper virus (CDV)	<i>Paramyxoviridae</i>	1:200	1	Feline immunodeficiency virus (FIV)	<i>Retroviridae</i>	1:200	30
Canine Herpes virus (CHV-1)	<i>Herpesviridae</i>	1:100	10	Feline infectious peritonitis (FIP)	<i>Coronaviridae</i>	1:100	10
Canine Parainfluenza virus (CPIV)	<i>Paramyxoviridae</i>	1:100	10	Feline leukaemia virus (FeLV)	<i>Retroviridae</i>	1:200	30
Canine Parvovirus (CPV)	<i>Parvoviridae</i>	1:100	1	Feline panleucopaenia virus (FPV)	<i>Parvoviridae</i>	1:100	10
Coital exanthema	<i>Herpesviridae</i>	1:100	10	Feline rhinotracheitis virus (FHV-1)	<i>Herpesviridae</i>	1:100	10
ECBO virus	<i>Picornaviridae</i>	1:100	10	Foot & Mouth Disease (FMD)	<i>Picornaviridae</i>	1:200	1
Equine abortion	<i>Herpesviridae</i>	1:100	10	Mouse parvovirus	<i>Parvoviridae</i>	1:100	10
Equine influenza (EIV)	<i>Orthomyxoviridae</i>	1:100	10	Rabies	<i>Rhabdoviridae</i>	1:600	30
Equine viral arteritis (EVA)	<i>Arterivirus</i>	1:100	10	Rotaviral diarrhoea	<i>Reoviridae</i>	1:600	10
				Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)	<i>Coronaviridae</i>	1:500	10



Bactericidal Activity Data

Family	Dilution Rate	Contact time (mins)	Family	Dilution Rate	Contact time (mins)
<i>Actinobacillus pleuropneumoniae</i>	1:200	10	<i>Ornithobacterium rhinotracheale</i>	1:100	15
<i>Bacillus cereus</i>	1:100	10	<i>Pasteurella multocida</i>	1:100	10
<i>Bordetella avium</i>	1:100	10	<i>Pseudomonas aeruginosa</i>	1:200	5
<i>Brachyspira hyodysenteriae</i>	1:3333	10	<i>Proteus vulgaris</i>	1:200	30
<i>Campylobacter coli</i>	1:100	5	<i>Salmonella arizona</i>	1:100	15
<i>Campylobacter jejuni</i>	1:100	5	<i>Salmonella choleraesuis</i>	1:100	10
<i>Campylobacter pyloridis</i>	1:100	10	<i>Salmonella enterica</i>	1:200	5
<i>Chlamydia psittaci</i>	1:100	10	<i>Salmonella enteritidis</i> (DEFRA)	1:100	30
<i>Clostridium perfringens</i>	1:100	10	<i>Salmonella enteritidis</i> PT4	1:100	5
<i>Dermatophilus congolensis</i>	1:100	10	<i>Salmonella typhimurium</i> DT104	1:200	30
<i>Erysipelothrix rhusiopathiae</i>	1:100	10	<i>Staphylococcus aureus</i>	1:100	0.5
<i>Escherichia coli</i> O157:H7	1:100	5	<i>Staphylococcus aureus</i> (pig MRSA)	1:100	30
<i>Escherichia coli</i> (ESBL)	1:100	10	<i>Staphylococcus intermedius</i>	1:200	10
<i>Klebsiella pneumoniae</i> (ESBL)	1:100	10	<i>Streptococcus equi</i>	1:100	10
<i>Listeria monocytogenes</i>	1:100	5	<i>Streptococcus suis</i>	1:400	30
<i>Mycoplasma gallisepticum</i>	1:100	10	<i>Streptococcus zooepidemicus</i>	1:100	5
<i>Mycoplasma mycoides</i>	1:200	10	<i>Taylorella equigenitalis</i>	1:100	10

Fungicidal & Yeasticidal Activity

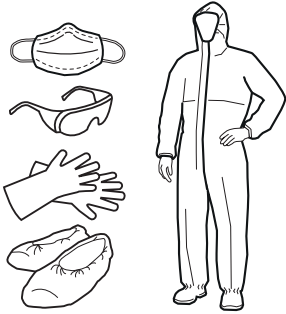
Family	Dilution Rate	Contact time (mins)	Family	Dilution Rate	Contact time (mins)
<i>Aspergillus fumigatus</i>	1:100	10	<i>Malassezia pachydermatis</i>	1:100	30
<i>Candida albicans</i>	1:100	10	<i>Trichophyton interdigitale</i>	1:100 1:50	60 30

How to prepare and use a Virkon® PROFESSIONAL disinfectant solution

Preparing a 500ml 1:100 disinfectant solution with Virkon® PROFESSIONAL 5g tablets

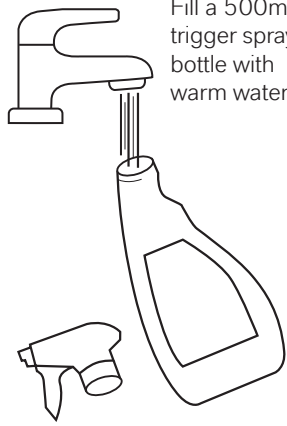
STEP 1

Wear appropriate personal protective equipment before preparation and use of disinfectant solutions



STEP 2

Fill a 500ml trigger spray bottle with warm water



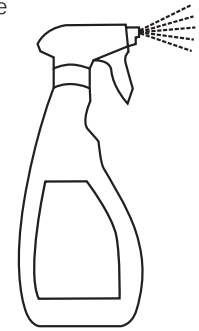
STEP 3

Add 1 x 5g Virkon® PROFESSIONAL tablet and wait for it to dissolve completely



STEP 4

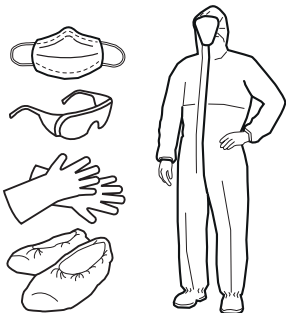
The Virkon® PROFESSIONAL disinfectant is now ready for use



Preparing a 500ml 1:100 disinfectant solution with Virkon® PROFESSIONAL powder concentrate

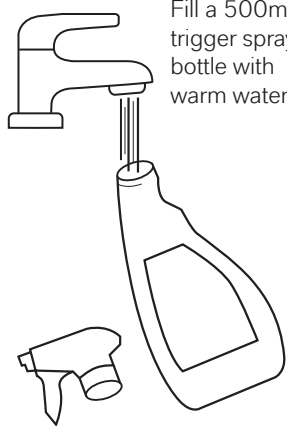
STEP 1

Wear appropriate personal protective equipment before preparation and use of disinfectant solutions



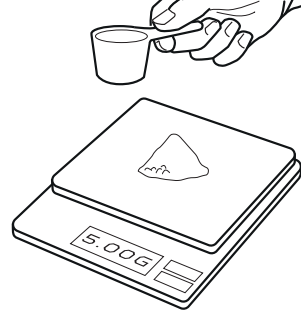
STEP 2

Fill a 500ml trigger spray bottle with warm water



STEP 3

Weigh out 5g Virkon® PROFESSIONAL powder concentrate



STEP 4

Add the 5g to the bottle and wait for it to dissolve completely



Applying Virkon® PROFESSIONAL disinfectant solution via a trigger spray bottle

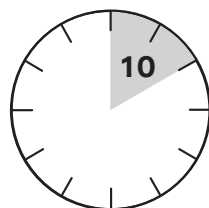
STEP 1

Spray Virkon® PROFESSIONAL solution onto the surface to be disinfected



STEP 2

Wait a minimum of 10 minutes



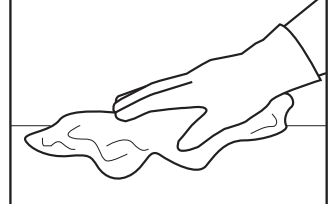
STEP 3

Spray all surfaces that have had disinfectant applied with fresh clean water



STEP 4

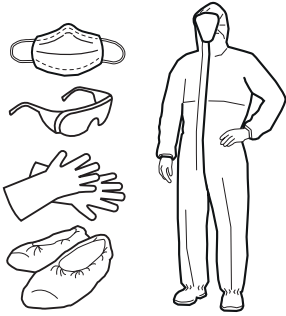
Then wipe surface dry with a clean cloth



Preparing 1:100 disinfectant solutions with Virkon® PROFESSIONAL powder concentrate

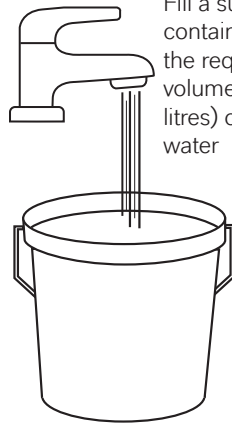
STEP 1

Wear appropriate personal protective equipment before preparation and use of disinfectant solutions



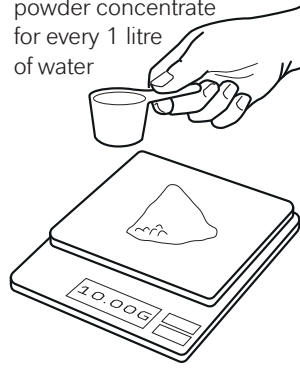
STEP 2

Fill a suitable container with the required volume (e.g. 5 litres) of warm water



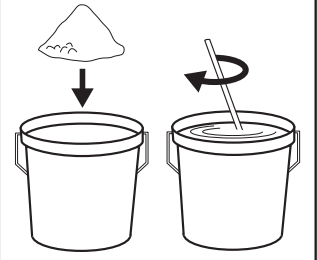
STEP 3

Weigh out 10g of Virkon® PROFESSIONAL powder concentrate for every 1 litre of water



STEP 4

Add the Virkon® PROFESSIONAL powder to the water and then stir until completely dissolved. The disinfectant solution is now ready to use



Applying Virkon® PROFESSIONAL disinfectant solutions

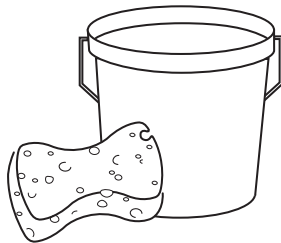
STEP 1

To disinfect large areas of floor space, apply Virkon® PROFESSIONAL solution using a mop and bucket



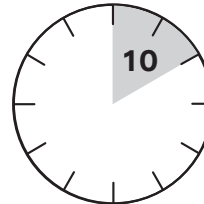
STEP 2

To disinfect walls, doors, and other large surfaces, use a bucket and sponge or cloth to apply Virkon® PROFESSIONAL disinfectant solution



STEP 3

Wait for a minimum of 10 minutes



STEP 4

Rinse all surfaces with clean water when materials compatibility is of concern



* Not for use for the disinfection of medical devices.

** Users should always check for compatibility with any sensitive materials before use. Do not use on any soft metals such as brass or copper. Not recommended for use on soft furnishings, textiles or carpets.

The specified uses and registered claims may vary from country to country. Please contact LANXESS to verify country-specific approved uses.

Use biocides safely. Always read the label and product information before use.



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