

Rely+On® Virkon®

Broad Spectrum
Virucidal Disinfectant



- Excellent in-use safety profile
- Effective against a broad spectrum of disease-causing organisms
- For use in medical facilities, pathology and biosafety containment laboratories, treatment salons and residential care homes
- Oxygen release active biocide chemistry
- Low risk chemistry for the environment



Rely+On® Virkon®

The powerful composition of the Rely+On® Virkon® formulation combines a broad spectrum of activity against viral, bacterial and fungal disease-causing organisms. It has an excellent in-use safety profile and application flexibility on hard surfaces, equipment, floors and doors at varying temperatures, and in the presence of organic challenge. These qualities make Rely+On® Virkon® the disinfection product of choice for EDC issues, including AIV, SARS-CoV-2 & norovirus.

Superior Operator Safety Profile

Rely+On® Virkon® has fewer handling and use constraints than many other disinfectant products and is not classified as harmful or a sensitiser in both powdered form and in-use dilutions, in accordance with EU legislation on the classification and labelling of chemical preparations.

Environmental Profile

Rely+On® Virkon® oxygen-based chemistry Oxone™ contains simple organic salts and organic acids and the active ingredient decomposes by a variety of routes within the environment, in soil and water, breaking down to form the naturally occurring substances, potassium salts and oxygen.

Rely+On® Virkon® 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 Rely+On® Virkon® should not, when used as directed, pose any threat to sewage treatment facilities.



Mode of Action

Rely+On® Virkon® oxidizes key structures and compounds, such as proteins, leading to widespread, irreversible damage and subsequent deactivation/ destruction of the microorganism.

There is no evidence to suggest that bacterial disease-causing organisms develop resistance towards Rely+On® Virkon® as opposed to some other disinfectant types.



Proven Broad Spectrum Efficacy

Independently proven highly effective using internationally accepted test methods (eg. ASTM, EN) against:

- over 100 strains of virus in 22 viral families
- over 400 strains of bacteria
- over 60 strains of fungi and yeast

using a wide variety of contact times, temperatures and organic challenge levels.

Applications

EDC (Emergency Disease Control)

- Decontamination of potentially infected facilities through the disinfection of hard surfaces, via spray application, the use of wipes & also by the use of suitable fogging apparatus.
- Disinfection of surfaces where human pathogens may be present, most notably for control of key viral species such as SARS-CoV-2, AIV, Norovirus), & which represent a high risk to personnel.

Medical Facilities

- Routine disinfection of hard surfaces, furniture, equipment*, floors, walls and doors in hospital wards, clinics and laboratories.
- Broad spectrum disinfection and decontamination of hard surfaces in critical clinical facilities, such as intensive care units and accident & emergency departments.
- Body fluid spillage clean up and decontamination.

Residential Care Homes

- Routine disinfection of hard surfaces, equipment*, furniture, floors, walls, doors and door handles in treatment and communal areas, corridors and bathrooms.**

Public Areas

- Disinfection of hard surfaces such as floors, walkways, walls, doors, corridors, door handles in public thoroughfares (such as shopping malls, airport lounges, cruise ships).

Treatment Salons

- Routine cleaning and disinfection of hard surfaces & equipment*.

Pathology and Biosafety Containment Laboratories

- Routine cleaning and disinfection of hard surfaces and equipment*, such as benches, floors, walls and doors, cabinets, centrifuges and pipette discard jars.



Hard Surface & Equipment Cleaning & Disinfection

The level of disease-causing organisms present after general cleaning can remain high enough to offer a serious disease challenge to patients and staff. Using a disinfectant proven to be effective against viruses, bacteria and fungi, such as Rely+On® Virkon®, is essential.

Fogging

To assist the control of organisms that may be introduced into a building, and to disinfect inaccessible areas of the building and the air, use a thermo-electric fogger unit to apply Rely+On® Virkon® disinfectant solution evenly. Aerial disinfection may also help control any contamination introduced to the building surfaces by airborne particulate matter present within the environment.



* 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.

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Task	Dilution Rate	Application
Hard Surface Disinfection	1:100 (1.0%: 10g per litre) - 1:200 (0.5%: 5g per litre)	Apply disinfectant solution using either a trigger spray bottle, a suitable knapsack type sprayer, cloth, sponge or floor mop. Allow to dry, before any re-use of treated areas. For disinfection of hard surfaces, apply the solution at a rate of 200ml/m ²
Equipment Disinfection (not for medical devices)	1:100 (1.0%: 10g per litre)	Suitable equipment can either be submerged and washed in disinfectant solution or sprayed and then wiped clean with a cloth or sponge. Rinse disinfected equipment with clean water after 10 minutes when materials compatibility is of concern. Refer to the product Instruction for Use leaflet (IFU) for further specific information.
Wipes	1:100 (1.0%: 10g per litre) - 1:400† (0.25%: 2.5g per litre)	Add solution to a suitable dry wipe system (contact LANXESS for advice on suitable wipe systems).
Fogging	1:20 (5.0%: 50g per litre)	Prepare the solution by adding 50 grams of Rely+On® Virkon® to a mixture of 900ml water and 100ml MPG. Mix thoroughly, and leave to stand for 10 minutes, before use. Add the prepared solution to the tank of a suitable thermo-electric fogger unit. Apply the solution at a rate of 20ml/m ³ . After use, always thoroughly rinse the equipment with clean water. Consult LANXESS for guidance on the use of suitable fogging equipment.

† See efficacy table EN 16615



Pathogen	Strain / Notes	Test Method	Dilution	Contact time [min]
BACTERIA				
Acinetobacter baumannii	Carbapenem resistant strain	laboratory own	1:200	10
Acinetobacter baumannii		EN1276:2019	1:400	5
Acinetobacter baumannii	Multidrug resistant strain	EN 13727:2012 +A2: 2015	1:200	5
Acinetobacter baumannii		EN 17272: 2020	1g/m3	60
Bacillus cereus (veg)		AOAC UDM	1:100	10
Bacillus subtilis(veg)		AOAC UDM	1:100	10
Campylobacter jejuni		EN 13727:2012 +A2: 2015	1:200	5
Chlamydia psittaci		AOAC UDM	1:100	10
Clostridium perfringens(veg)		AOAC UDM	1:100	10
Coxiella burnetii		EN 1656	1:100	30
Enterobacter cloacae		EN 13727:2012 +A2: 2015	1:400	5
Enterococcus faecalis	VRE resistant strain	EN 13727:2012 +A2: 2015	1:200	5
Enterococcus faecium		EN 13727:2012 +A2: 2015	1:400	5
Enterococcus hirae		EN 13727:2012 +A2: 2015	1:400	5
Enterococcus hirae		EN 13697:2015	1:200	5
Enterococcus hirae		EN 14561:2006	1:200	5
Enterococcus hirae		EN 17387:2021-10	1:200	15
Enterococcus hirae		EN 16615:2015	1:100	15
Enterococcus hirae		EN 17272: 2020	1g/m ³	60
Escherichia coli		EN 13727:2012 +A2: 2015	1:200	5
Escherichia coli		EN 13697: 2015	1:200	5
Escherichia coli		EN 1276:2019	1:500	5
Escherichia coli		EN 17387:2021-10	1:400	15
Escherichia coli	ESBL strain	EN 13727:2012 +A2: 2015	1:200	5
Escherichia coli	O157	EN 13727:2012 +A2: 2015	1:200	5
Escherichia coli	drug resistant strain	EN 13727:2012 +A2: 2015	1:400	1
Escherichia coli		EN 17272: 2020	1g/m ³	60
Klebsiella pneumoniae	ESBL strain	EN 13727:2012 +A2: 2015	1:200	5
Klebsiella pneumoniae	Drug resistant strain	EN 13727:2012 +A2: 2015	1:400	1
Legionella pneumophila		EN 13623:2020	1:125	60
Listeria monocytogenes		EN 1276	1:100	5
Pasteurella multocida		AOAC UDM	1:100	10
Proteus vulgaris		laboratory own	1:100	5
Pseudomonas aeruginosa		EN 1276:2019	1:500	5
Pseudomonas aeruginosa		EN 13727:2012 +A2: 2015	1:400	5
Pseudomonas aeruginosa		EN 13697:2015	1:200	5
Pseudomonas aeruginosa		EN 16615:2015	1:100	15
Pseudomonas aeruginosa		EN 14561:2006	1:200	5
Pseudomonas aeruginosa	Drug resistant strain	EN 13727:2012 +A2: 2015	1:400	1

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Pathogen	Strain / Notes	Test Method	Dilution	Contact time [min]
BACTERIA				
Salmonella enterica		EN 13727:2012 +A2: 2015	1:400	1
Salmonella enteritidis		EN 1656:2019	1:400	5
Salmonella typhimurium		EN 1656:2019	1:400	5
Shigella sonnei		AOAC UDM	1:100	5
Staphylococcus aureus		EN 1276:2019	1:500	5
Staphylococcus aureus		EN 13727:2012 +A2: 2015	1:400	5
Staphylococcus aureus		EN 13697:2015	1:200	5
Staphylococcus aureus		EN 16615:2015	1:100	15
Staphylococcus aureus		EN 14561:2006	1:200	5
Staphylococcus aureus		EN 17272: 2020	1g/m ³	60
Staphylococcus aureus	MRSA strain	EN 13727:2012 +A2: 2015	1:200	5
Streptococcus pyogenes		AOAC UDM	1:100	10
Yersinia enterocolitica		EN 1276	1:100	5
BACTERIOPHAGE				
Escherichia coli & bacteriophage MS2		NFT 72-281	1:500	30
Escherichia coli & bacteriophage T2		NFT 72-281	1:1000	30
Escherichia coli & bacteriophage X174		NFT 72-281	1:2000	30
Streptococcus lactis diacetylactis & bacteriophage no.66		NFT 72-281	1:4000	30
FUNGI				
Aspergillus brasiliensis		EN 1650	1:33	15
Trichophyton interdigitale		EN 1657:2016	1:50	30
YEAST				
Candida albicans		EN 1650:2008 +A1:2013	1:200	15
		EN 13624:2013	1:200	30
		EN 16615:2015	1:400	30
		EN 13697:2015	1:67	15
		EN 17387:2021-10	1:100	60
		EN 17272:2020	1g/m ³	60
Candida auris	Multiresistant strain	EN 1650:2019	1:133	5
Saccharomyces cerevisiae		EN 1650:2019	1:200	10

Pathogen	Strain / Notes	Test Method	Dilution	Contact time [min]
VIRUSES				
Adenovirus 5		EN 14476: 2013+ A2:2019	1:200	5
Adenovirus 5		EN 17272: 2020	1g/m3	60
Adenovirus 5		EN 16777:2018	1:200	5
Adenovirus 5		EN 17111:2018	1:200	5
Avian Influenza A	H3N8 strain	EN 14476: 2013+ A1:2015	1:500	5
BVD virus	Marburg virus surrogate	EN 14476: 2013+ A2:2019	1:200	5
SARS-CoV-2		ASTM	1:100	1
			1:500	10
Coronavirus	Human strain, 229E	ASTM	1:100	10
Hepatitis A		ASTM	1:100	10
Hepatitis B	DHBV strain	ASTM	1:100	10
Hepatitis C	BVD strain	ASTM	1:100	10
HIV		ASTM	1:100	10
Influenza A		ASTM	1:100	10
Influenza A	H1N1 , swine	ASTM	1:100	0.5
			1:600	10
Measles		EN 14476: 2013+ A2:2019	1:400	5
Murine norovirus		EN 14476: 2013+ A2:2019	1:200	5
Murine norovirus		EN 17111: 2018	1:200	5
Murine norovirus		EN 17272: 2020	1g/m3	60
Orthopox	Mpox	EN 14476: 2013+ A2:2019	1:200	5
Poliovirus		EN 14476: 2013+ A2:2019	1:200	5
Pseudorabies		EN 14476:2019-10	1:1000	1
Respiratory Syncytial Virus	RSV	ASTM	1:100	10
Rotavirus	Human strain	EN 14476:2019-10	1:1000	5
Vaccinia	Elstree	EN 14476: 2013+ A2:2019	1:200	5

Rely+On® Virkon® SARS-CoV-2 Efficacy

Rely+On® Virkon® broad spectrum disinfectant demonstrates extremely rapid efficacy against SARS-CoV-2, the virus responsible for COVID-19.

The efficacy testing was undertaken by Microbac Laboratories, Inc. in the USA, in accordance with the U.S. Environmental Protection Agency (EPA) compliant test methods, for products intended for virucidal hard surface disinfection, under high soiling conditions.

Rely+On® Virkon® achieved rapid and complete inactivation of the SARS-CoV-2 virus at a dilution ratio of 1:100 in just 60 seconds.

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Presentations

Rely+On® Virkon® Powder

- 50 g sachet – makes 5 litres of disinfectant
- 500 g container – makes 50 litres of disinfectant
- 5 kg drum – makes 500 litres of disinfectant

Rely+On® Virkon® Tablets

Convenient to store and easy to handle; simplifies accurate dosing of a disinfectant solution.

- 10 x 5 g tablets – makes 5 litres of disinfectant
- 50 x 5 g tablets – makes 25 litres of disinfectant

Easy to Prepare

Readily soluble in warm tap water, Rely+On® Virkon® dissolves into a pink solution, which remains stable for up to 5 days, as a 1:100 solution. Consult your local representative for advice on stability for any alternate strength solutions.

Unused or inactive solutions may be disposed of via the sink (leading to waste water treatment facilities and in accordance with local regulations).



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

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Unless specified to the contrary, the values given have been established on standardized test specimens. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

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