

COVID-19 Business Restarter Pack

- Who we are
- Our response to COVID-19
- Products and services to support your business

hunter

This is **work smart wear.**



About Hunter

The Fabric of Hunter

Hunter began as a bespoke tailoring specialist in 1936, but has evolved into a pioneer in the creation and management of technology-driven professional clothing and care and maintenance solutions. Over the years our professional clothing and PPE designs created through **HunterONE®**, have changed how businesses in a wide range of sectors look, but the efficiency of **HunterCARE®** and **HunterPAC®** have transformed the way many more operate.

HunterCARE® is our duty of care platform for the care, maintenance and decontamination of technical PPE. HunterPAC® is our dynamic ordering platform for the provision of managed services.

Both of these propriety platforms are multi-award winning Nationally. Hunter own and operate specialised laundry and decontamination centres in both the UK and Ireland. Our HunterCARE® centres provide a range of services including inspection, laundry, repair and decontamination all managed by our professionally trained team.

Hunter is the exclusive UK and Ireland distributor of D7 in our niche sectors. D7 is a key part of our laundry and decontamination process, as you will learn through this presentation, D7 offers a level of protection second to none and its broad range of applications has brought D7 to the forefront in the battle against COVID-19.



Our goal is to connect clever design with innovative technology to make businesses smarter on every level with **work smart wear**.

Our Awards

INSTITUTE OF DIRECTORS AWARDS

- Simon Hunter – UK Overall Director of the Year 2015
- Simon Hunter – UK Family Business Director of the Year 2015 & 2012
- Simon Hunter – NI Family Business Director of the Year 2015 & 2012

AER LINGUS VISCOUNT AWARD

- Innovator of the Year 2016 – Pall Mall, London

PROFESSIONAL CLOTHING AWARDS

- Long Service to Textiles Award 2019
- Best Business Manager 2018
- Best Managed Major Contract 2018
- Best IT Innovation and Website of the Year 2017
- Dublin Fire Brigade Best Bespoke Uniform for PPE
- Lifetime Achievement Award 2016 for Director, William Francis Graham Hunter J.P
- Simon Hunter – Best Business Manager of the Year 2015 (nominated by UK Border Force)
- UK Border Force Best Managed Major Contract of the Year 2015
- UK Border Force Best Bespoke Workwear Uniform Design of the Year 2015
- Highly Commended Best Bespoke Workwear Design 2014 (nominated by An Post)



Our Response

In response to COVID-19 our team:

- Have manufactured, sourced and delivered millions of units of COVID-19 response PPE and healthcare garments to UK and Irish organisations.
- Increased staffing at our Northern Ireland based R&D unit and factory to support demands.
- Installed social distancing measures and regular deep decontamination of our buildings and vehicles.
- Supplied thousands of litres of D7, the world's most powerful decontamination solution to UK and Irish emergency services and key working organisations.
- Designed and manufactured multiple COVID-19 response products including ePTFE fabric facemasks, healthcare tunics and screen dividers.



Product Overview

ePTFE fabric face masks

The perfect aid for social distancing



This ePTFE membrane design means the face mask will be:

- Fluid resistant ePTFE membrane
- Breathable
- Washable
- Very hard wearing
- Reusable with long lifespan including washing
- Improved elastic

Note: Our face masks are not certified as healthcare products, nor should they be used in a healthcare environment in replacement to a certified face mask.



Black outer option

Navy outer option

A range of other facemasks available including Type 2 R fluid resistant face mask



Product Overview

Disposable PPE

The H63 Coverall is made from a strong yet breathable 63gsm microporous laminated fabric. It is a high quality and robust Cat III Type 5 & 6 suit which meets the most stringent requirements for a variety of industries.

Pro fabric is non linting and anti-static to EN 1149-5 2008, therefore ideal for use in wide ranging applications where the operating environment must not be contaminated with garment fibres.

For comfort and ease of fit, a knitted cuff and two way zip has been added, and the zip also has an adhesive cover flap for extra sealing. This is our premium Cat III Type 5 & 6 coverall



The H67 Coverall is made from our soft comfortable 67gsm microporous laminate fabric, meeting Cat III Type 5B & 6B. Whilst also being compliant to EN1149-5:2008 (Antistatic) and EN1073-2 (Nuclear Particle).

H67 is suitable for a vast number of applications, though it is especially useful for instances of prolonged wear. Offering improved breathability whilst still maintaining an effective hazard barrier.



Additional Products

- Alcohol sanitisers
- Biocidal sanitisers
- Dental and medical blankets
- Signs, branded tapes for social distancing
- Faceshields
- Overshoes
- Nitrile Gloves
- Latex gloves



Full range of other products is also available

The World's Most Powerful Decontamination Solution

- D7 effectively neutralises up to 99.999% of all bacteria, viruses, spores, molds, and chemical & biological hazards.
- The Formula is non-flammable, non-corrosive, contains zero VOCs, and is biodegradable.
- D7 eliminates both vegetative and non-vegetative spores, by chemically cleaving spore walls, and neutralising mycotoxins.
- Easily applied as a foam, fog, mist or direct spray, mopped, or even as a detergent.
- Used by FBI, CIA, Secret Service, Dept. of Homeland Security, U.S. EPA, FEMA, and Various large scale organisations.
- Leaves a non-toxic pH neutral residual barrier to prevent re-contamination.



The Use of D7 to Disinfect Areas Potentially Contaminated with Coronavirus

D7 is an aqueous-based disinfectant that can rapidly neutralize highly toxic chemical and biological materials. The formulation:

- is effective for killing pathogenic organisms including vegetative and spore-forming bacteria, viruses, biofilms, and fungi and for neutralizing highly toxic chemicals;
- utilises very mild ingredients that gives it very low toxicity and corrosive properties; can be deployed as a foam, liquid spray, or fog on a wide variety of materials and surfaces.
- can be deployed as a foam, liquid spray, or fog on a wide variety of materials and surfaces.

D7 contains surfactants, mild solvents, inorganic salts, a low concentration of hydrogen peroxide (~3.5%), a hydrogen peroxide activator, and water. The surfactants soften the cell walls of pathogens which allows the activated peroxide to penetrate to the interior for complete kill. This unique combination of mild ingredients works synergistically to kill persistent biological pathogens which has been demonstrated in testing at numerous government and private facilities and in many field applications – outperforming formulations that contain much harsher chemicals.

D7 was originally developed to decontaminate chemical and biological warfare agents for military and homeland security applications. D7 has high efficacy against pathogens of concern to human health, and in agriculture and food processing such as *Listeria*, *E. coli*, *Salmonella*, the African Swine Fever virus, the Porcine Epidemic Diarrhea Virus, *Salmonella* and *E. coli* biofilms, Avian Influenza, and *Bacillus* spores.

An independent study by Kansas university found D7 the most effective Decontaminate in wiping out corona virus, H1N1 and Bovine virus's.

D7 can effectively inactivate coronaviruses. In tests at Kansas State University, D7 was shown to rapidly and completely inactivate a >5Log10 concentration of Bovine Coronavirus (BCV) with a one minute contact time even in the presence of a 50% organic loading¹. Note that in the report for these tests referenced below, D7 is referred to by its development name of DF-200. Based on these results, D7 can effectively be used to disinfect facilities such as hospitals, railway stations, and airports against coronaviruses and other pathogenic organisms – even in areas with high organic or soil loads.

D7 can be easily deployed. It can be dispersed as a highly stable foam through existing foam generating equipment. When deployed as a foam, it clings to vertical and downward facing surfaces for 30 minutes or more to achieve long contact times against persistent toxic materials including biofilms. It can also be deployed as a liquid spray either through large-scale sprayers or from a hand-held spray can (i.e., BDAS+) which enables rapid deployment within seconds. D7 can also be deployed as a fog (or mist) from aerosol-generating devices primarily for interior decontamination – which is the ideal deployment method for large spaces potentially contaminated with coronaviruses. Once D7 comes into contact with bacteria or viruses either in the air or on surfaces, these pathogens are quickly killed or inactivated reducing the risk of infections to people in the area.



D7 being used in Wuhan, China 2019.



D7 3 Part Solutions.

The solution, developed for the U.S. Department of Defense, is available in four configurations to cover a variety of decontamination needs.

D7 - What it kills

D7™ NEUTRALIZES A WIDE RANGE
OF BIOLOGICAL AND CHEMICAL THREATS



CHEMICAL & BIOLOGICAL WEAPONS

- Bacillus Anthracis (Anthrax)
- Botulinum (Toxin)
- GA (Tabun) Nerve Agent

- GB (Sarin) Nerve Agent
- GD (Soman) Nerve Agent
- Lewisite (Blister)

- Mustard Gas (Blister)
- Ricin (Toxin)
- VX Nerve Agent

BIOLOGICAL ORGANISMS

- Aspergillus niger
- Bird Flu H5N1
- Brevibacterium ammoniagenes
- Burkholderia cepacia
- Campylobacter jejuni
- Candida albicans
- Clostridium difficile
- Corynebacterium ammoniagenes
- Enterobacter aerogenes
- Enterobacter cloacae
- Enterobacteriaceae (with extended beta Lactamase resistance)
- Entrococcus faecalis
- Entrococcus faecium (Vancomycin resistant)
- Escherichia coli
- Escherichia coli (antibiotic resistant)
- Escherichia coli 0157:H7

- Hantavirus
- Hepatitis B Virus
- Hepatitis C Virus
- Herpes Simplex Type 1
- Herpes Simplex Type 2
- HIV/AIDS
- Human Coronavirus
- Legionella pneumophila
- Influenza A/Brazil Virus, H1N1
- Klebsiella pneumonia
- Klebsiella pneumonia (antibiotic resistance)
- Listeria monocytogenes
- Norovirus Feline
- Norovirus Murine
- Proteus mirabilis
- Proteus vulgaris
- Pseudomonas aeruginosa

- Pseudomonas aeruginosa (antibiotic resistant)
- Respiratory syncytia virus
- Salmonella enteric
- Salmonella typhi
- SARS
- Serratia marcescens
- Shigella dysenteriae
- Shigella sonnei
- Staphylococcus aureus
- Staphylococcus aureus (antibiotic resistant)
- Staphylococcus aureus (Methicillin resistant)(MRSA)
- Staphylococcus pyogenes
- Trichophyton metagrophytes
- Tuberculosis
- Vaccinia virus
- Vibrio cholera

CHEMICALS

- Q-Alkyl Phosphonofluoridates, such as Sarin and Soman
- Q-Alkyl Phosphonofluoridates, such as Tabun
- O-Alkyl, S-2-Dialkyl Aminoethyl Alkylphosphonothiolates and Corresponding Alkylated or Protonated Salts, such as VX Mustard Compounds, Including 2-Chloroethyl chloromethyl sulfide, Bis (2-Chloromethyl) sulfide, Bis (2-Chloromethyl) Methane, 1,2-Bis (2-Chloromethylthio) Ethane, 1,3 Bis (2-Chloroethylthio)-N-Propane, 1,4 Bis (2-Chloroethylthio)-N-Butane, 1,5-Bis (2-Chloroethylthio)-N-Pentane, and Bis (2-Chloroethylthiomethyl) Ether
- Methylamine, Saxitoxin
- Lewisites including 2-Chlorovinyl dichloroarsine, Bis (2-Chlorovinyl) Chloroarsine, Tris (2-Chlorovinyl) Arsine, Bis (2-Chloroethyl) Ethylamine, and Bis (2-Chloroethyl)

- Alkyl Phosphonyldifluoride and Alkyl Phosphorites
- Chlorosarin
- Chlorosoman
- Amiton, 1,1,3,3,3, -Pentafluoro-2-(Trifluoromethyl) -1- Propene, 3-Quinuclidinyl Benzilate
- Methylphosphonyl Dichloride
- Dimethyl Methylphosphonate
- Dialkyl Phosphoramidic Dihalides
- Dialkyl Phosphoramidates
- Arsenic Trichloride
- Diphenyl Hydroxyacetic Acid
- Quinuclidin-3-ol
- Dialkyl Aminoethyl-2-Chlorides
- Dialkyl Aminoethan-2-ols And Dialkyl Aminoethane -2-Thiols

- Thiodiglycols
- Pinacolyl Alcohols
- Phosgene
- Cyanogen and Thionyl Chloride
- Hydrogen Cyanide and Chloropicrin
- Phosphorous Oxychloride
- Phosphorous Trichloride, Phosphorous Pentachloride and Alkyl Phosphites
- Sulfur Minochloride, Sulfur Dichloride

Some of the noteworthy uses of D7

Used by EPA after Hurricane Katrina to clean commercial buildings and homes.

Decontamination of the Hart Senate Building, Us Post Office in Washington DC, and NBA Studios in New York City following 9/11 Anthrax attacks.

Remediation of the sidewalks and public areas after the Boston Marathon Bombing.

Clean up of inside the Dallas Ebola Apartment and surrounding common areas.

Staged in the Middle East as part of Operation Iraqi Freedom.

An earlier version of the technology was used to successfully remediate portions of the US Capitol Hill office buildings in New York City following anthrax incidents of October 2001.



Safe for Frequent Use

Historically, decontaminants have been highly toxic and highly corrosive. For example, while chlorine and bleach solutions also neutralize many biological and chemical agents, the runoff of these solutions is still hazardous. Also, bleach itself is highly corrosive and can cause damage to many surfaces and fabrics.

Alcohol and ammonia present similar inhalation hazards and potential for damage. D7 was developed to provide an effective decontaminant solution with low toxicity and low corrosive action that is safe for use around people and animals, safe for the environment and safe for equipment.

D7 can eliminate most pathogens – without harmful fumes like bleach – and neutralize carcinogens by breaking them down into non-toxic substances.

It's also used by hazmat teams to decontaminate meth labs and crime scenes. The formula is safe to apply on a variety of surfaces, including plastics and metals, and it creates no noxious fumes or odours.

Although D7 complies with environmental regulations, D7 is not FDA-approved for use on your skin. Users should wear gloves and goggles, plus a mask and protective clothing when applying the solution in close quarters.



Product Overview

Powercap Infinity

Designed from the ground up to deliver unrivalled performance. PowerCap® Infinity® is fully loaded with performance enhancing technology, neatly packaged into a single head top unit eliminating the need for cumbersome and restrictive waist mounted units and hoses.

4 in 1 Fully Integrated Protection

- Head Protection
- High-Efficiency Filters
- Panoramic Impact Visor
- Ear Defenders



Thank you for reading

Contact us today for a quote.
Data sheets available upon request.
marketing2@hunterapparelsolutions.com

[Click to email](#)

hunter

This is **work smart wear.**



Telephone +44 (0)28 7126 2542 hunterapparelsolutions.com
Hunter Apparel Solutions Limited, Springtown Industrial Estate, Derry~Londonderry, Northern Ireland, BT48 0LY