



# PERSONAL PROTECTION EQUIPMENT (PPE) SANITATION AND INFECTION CONTROL PRODUCT LINE



## Hydromer's Response to COVID19

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We are actively engaged in the fight against COVID-19 by manufacturing various products that aid in helping save lives, including our anti-fog coatings for PPE, our anti-microbial hydrophilic coatings for medical devices, and our line of sanitizers. We are focused on keeping your customers safe, by providing various infection control and sanitation solutions. Learn more about our product line inside!

# We can help protect against germs!



## Get to Know Us

Hydromer® is a leading global surface modification and coatings solutions provider. As a trusted partner to companies worldwide, our solutions add value to our clients' products so that they can stand out in the marketplace. We are an innovation-driven, customer-centered organization with a focus on meeting our clients' needs.

We offer custom industrial and medical device coatings, PPE sanitation solutions, custom contract coating services, customized coating equipment, contract manufacturing, and turnkey operations backed by outstanding teams of research and development, customer service, and tech support.

Hydromer collaborates extensively with clients to deliver superior, customized polymer-based solutions. We create or modify coating formulations that adhere to a multitude of substrates and match the unique requirements and geometries of any device. We are a leader in developing coating formulas and processes that meet a market-driven need for greener, more sustainable solutions.

**We are an FDA registered, ISO 13485:2016 and ISO 9001:2015 certified production facility.**





## Our Product Line cont.

### Alcohol-based Sanitizers

Sanitation solutions for PPE and infection control

#### HydroProtect™



#### HydroProtect™ Gel Hand Sanitizer

Our FDA registered gel hand sanitizer kills up to 99.9% germs while hydrating your hands with aloe vera, making them feel softer. Our gel version is filtered through active charcoal for and reduces harsh smells and impurities and comes in different viscosities and scents like lavender and citrus can be added, depending on your needs and evaporates quickly, leaving your hands clean and protected against harmful germs and bacteria.

#### HydroProtect™ Liquid Sanitizer Spray

Our FDA registered liquid sanitizer spray kills up to 99.9% of germs. This spray is filtered through active charcoal for and reduces harsh smells and impurities and comes in different viscosities and scents like lavender and citrus can be added, depending on your needs. This spray is best used on surfaces, PPE, and even clothing as it evaporates quickly and doesn't stain or harm surfaces, leaving them clean and protected against harmful germs and bacteria.



#### FIRST RESPONDER™

#### First Responder™

#### Liquid Hand Sanitizer

Our hospital-grade, FDA registered liquid hand rub kills up to 99.9% of germs and is effective against COVID19. This rub version is perfect to cover all surface areas of your hands and arms efficiently and evaporates quickly, leaving them clean and protected against harmful germs and bacteria.

#### First Responder™

#### Liquid Sanitizing Spray

Our hospital-grade, FDA registered liquid sanitizer spray kills up to 99.9% of germs and is effective against COVID19. This spray is best used on surfaces, PPE, and even clothing as it evaporates quickly. Our formulation doesn't stain or harm surfaces, leaving them clean and protected against harmful germs and bacteria.



## Our Product Line cont.

### Plant-based Sanitizers

Sanitation solutions for PPE and infection control

## EscenciaProtect™



### Green Antimicrobial Sanitizer Spray

Our patented, “non-alcohol”, plant-based spray sanitizer provides many benefits over the traditional chemical-based products. It not only can safely clean many surfaces such as equipment, boards, tables and produce like vegetables, fruits and even meats. It provides a barrier that protects your food and treated surfaces from harmful germs and bacteria for up to one hour without re-applying.

### Green Antimicrobial Hand Sanitizer

Our patented, “non-alcohol”, plant-based hand sanitizer provides many benefits over the traditional alcohol-based products. It provides a barrier of soothing moisturizer, that protects your hands from harmful germs and bacteria for up to one hour without re-applying.

### Green Antimicrobial Concentrate

Our patented, “non-alcohol”, plant-based concentrate is best used to incorporate into your ingredients providing an antimicrobial additive to your products. This active can add a barrier against germs for up to an hour without re-applying.

### Green Antimicrobial Hand Soap

Our patented, “non-alcohol”, plant-based hand soap provides many benefits over the traditional soap products. Once used it provides your hands a barrier of soothing moisturizer, that protects your hands from harmful germs and bacteria for up to one hour without re-applying.

**Table 1.** Virucidal efficacy of EscenciaProtect™ Hand Sanitizer against SARS-CoV-2 after incubation with virus at 22 ± 2°C.

Compound	Concentration	Contact Time	Toxicity <sup>a</sup>	Neut. Control <sup>b</sup>	Virus Titer <sup>c</sup>	VC	LRV <sup>d</sup>
EscenciaProtect™	100%	15 min	1/100	None	<2.7	5.2	>2.5
EscenciaProtect™	10%	15 min	1/10	None	<1.7	5.2	>3.5
EscenciaProtect™ Hand Sanitizer	100%	15 min	1/10	None	2.5	5.2	2.7
Ethanol	70%	15 min	None	None	<0.7	5.2	>4.5
EscenciaProtect™	100%	1 hour	1/100	None	<2.7	5.2	>2.5
EscenciaProtect™	10%	1 hour	1/10	None	<1.7	5.2	>3.5
EscenciaProtect™ Hand Sanitizer	100%	1 hour	1/10	None	<1.7	5.2	>3.5
Ethanol	70%	1 hour	None	None	<0.7	5.2	>4.5

<sup>a</sup> Cytotoxicity indicates the highest dilution of the endpoint titer where full (80-100%) cytotoxicity was observed  
<sup>b</sup> Neutralization control indicates the highest dilution of the endpoint titer where compound inhibited virus CPE in wells after neutralization (ignored for calculation of virus titer and LRV)  
<sup>c</sup> Virus titer of test sample or virus control (VC) in log<sub>10</sub> CCID<sub>50</sub> of virus per 0.1 mL  
<sup>d</sup> LRV (log reduction value) is the reduction of virus in test sample compared to the virus control

Our EscenciaProtect™ was effective against COVID19. The data shows the virus was below detected level after use of our plant-based sanitizer.



## Our Product Line cont. Anti-fog/Condensation Control Coatings

Coating solutions for PPE and infection control

### Luxere™

#### Anti-fog and Condensation Control Coating

Our patented, semi-abrasion resistant, semi-permanent, thermal or UV cured, anti-fog solution is a coating, imparting anti-fog/condensation controlling properties. Great for face shields, protective eye wear, face masks, protective panels, and more.

### Brillianz™

#### Anti-fog and Condensation Control Coating

Our patented, UV stable, anti-fog solution is a semi-abrasion resistant, semi-permanent coating, imparting anti-fog/condensation controlling properties. Great for face shields, protective eye wear, face masks, protective panels and more that may be exposed to sunlight for long periods of time.

### Luxere™ Green

#### Antimicrobial Temporary Anti-fog and Condensation Control Coating

Our patented, temporary, anti-fog solution is a spray coating, imparting anti-fog/condensation controlling and antimicrobial properties. Great for face shields, protective eye wear, face masks, protective panels, and more.

Features include:

- Instant anti-fog quality
- Green technology – means that its safer for use near the mouth, nose and eyes.
- Antimicrobial means its effective against virus's, bacteria, molds and more
- No harsh chemical smell
- Easily removed with soap and warm water, no scrubbing or unintended scratching on mask
- No residue build-up
- Quick to reapply
- No streaking or hazing
- Extends the lifetime of the mask safely, making it reusable.





## Our Product Line cont.

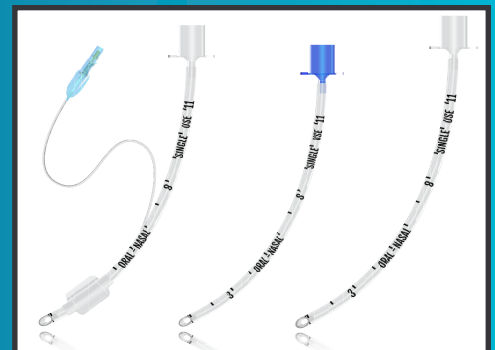
### Hydrophilic Coatings

Coating solutions for PPE and infection control

# Hydromer® Hydrophilic Medical Device Coatings

Our medical device coatings are formulated using polymers that reduce protein adsorption and platelet activation. Our broad portfolio of products can be applied through heat curing processes that enables the ability to coat inner and outer diameters of micro and multiple lumens. Hydromer's products can also achieve higher film thickness and coat complex geometries. Hydromer's coatings for medical devices possess highly sought-after performance attributes such as:

- Antimicrobial
- Drug-eluting capabilities
- Wettability
- Biocompatibility
- Reduced friction
- Non-leaching
- Better substrate adhesion
- Thromboresistance



## We know how important your company's present and future is after COVID19

That is why at Hydromer® we are driven about custom sanitation solutions. We are not only focused on protecting you and your customers now, but ensuring they have protection against future circumstances. Hydromer will continue its efforts during and after COVID to provide sanitation for PPE and infection control.



### Dynamic Solutions

*We create custom solutions to fit every need*



### Global Solutions

*We offer solutions to companies world-wide*



### Trusted Solutions

*We have over 40+ years of experience in custom coatings solutions*







## Why Choose Us

### We are the experts

As a globally trusted partner to companies of all sizes, Hydromer® has been offering specialty polymers and surface coating technologies, contract coating services, and custom-designed equipment for diverse applications since 1981. Our leading-edge solutions amplify products within many industries, including: medical devices, industrial plastics, biotechnology, aerospace and personal care. We help our partners introduce products to the market in less time while differentiating themselves from their competition. We're agile and able to produce prototypes, as well as finished coated devices, with complex geometries, in volumes small to large.

Hydromer personifies innovation, driven by a team of exceptional Ph.D. chemists and innovators. We take pride in offering outstanding:

-  R&D
-  Customer service
-  Tech support
-  And more!

Our company continually focuses on the future by developing innovative solutions comprised of more eco-friendly and sustainable approaches.

## **Our Vision**

Our vision is to continually expand on Hydromer's more than 40-year legacy of successful polymer and surface modification innovation.



**Hydromer**<sup>®</sup>

## **Contact Us**

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