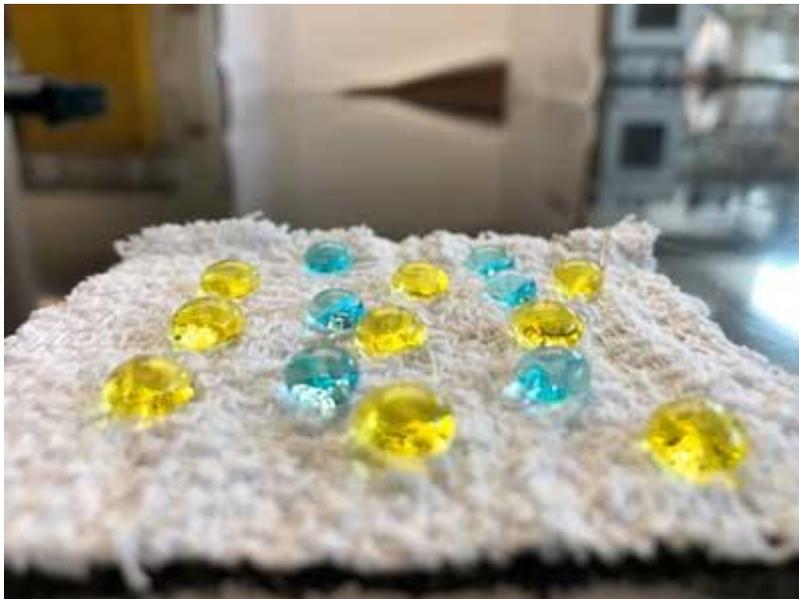


Nanotechnology filter coating protects against COVID-19

JBS have developed a nanotech coating designed to allow air filters to capture & kill airborne or aerosolized droplets of the virus which cause COVID-19.

JBS Filterguard is a sustainable and environmentally friendly product. The coating works by capturing and killing liquids which encase the virus particles while still allowing air to flow through the filter with no reduction in airflow. This allows the ventilation system to remove the virus during normal operation, without retrofitting or limiting the system's ability to draw fresh air.



The nanocoating on this fabric, when installed in air filtration systems, is capable of capturing airborne virus particles, trapping them on the filter's coating with zero reduction in air flow.

The coated filters are currently installed in public buildings in the USA, they have been tested for static pressure suitability and rated positively.

Balancing filtration with air flow is critical to indoor air quality, this is a key issue as colder weather in some parts of the country require people to spend more time indoors.

JBS are a world leader in the design, manufacture and commercialisation of nano material and products. Our state of the art nano facility is based in Ft Lauderdale Florida.



The nanotechnology filter coating is a new water-based version designed to capture airborne virus particles, trapping them on the filter's coating without limiting air flow.

It is always recommended to ensure that that the treated filters are used in conjunction with other precautions such as masks and social distancing.



High-efficiency filters such as HEPA, can trap some virus particles, however ventilation systems are designed to use specific types of filters. Installing a higher rated filter can result in the necessity to change or even replace the ventilation system. Changing the system would still require a number of air passes through the ventilation system before the system was effective.

JBS use independent laboratories for product testing and this confirmed that the treated filter captured the virus while, in comparison, it flowed through untreated filters of the same Minimum Efficiency Reporting Value (MERV) rating.

Pollen and other particles that aren't encapsulated in fluids – in the case of the coronavirus, usually saliva, phlegm and other respiratory fluids – still pass through the filter.

The objective of the JBS nanotechnology filter coating is not to change the rating of the filter. Filters are selected for the volume of the room in which they are installed. Our objective is to eliminate the contaminants including bacteria, viruses and mould.

Our use of science is helping to get the world back to some form of normality, and JBS are willing and able to assist.

The coating is another example of how nanotechnologies are entering the mainstream.

Building technologies, including filtration, HVAC systems and indoor air quality, are of paramount importance to reopening the world safely. The war on COVID is being fought on a number of fronts, and poorly ventilated buildings, transport systems are of major concern.

JBS have scaled up our manufacturing facilities to provide this important COVID mitigation solution.

Contact JBS for further information at www.jbsgroupglobal.com

