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chemical systems
a Fakolith Group Company

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FAKOLITH Hygienic and FoodGrade coatings, also show great antimicrobial efficiency against Coronavirus.

Fakolith has carried out official tests in external accredited laboratories with viruses of the Coronavirus family, under the BSI ISO 21702:2019 standard. This standard allows the evaluation of antiviral activity in plastics and other non-porous surfaces. **The results obtained confirm that the reduction of viral load is up to 99.49%, on paints treated with BioFilmStop technologies, and in only 2 hours of contact.**

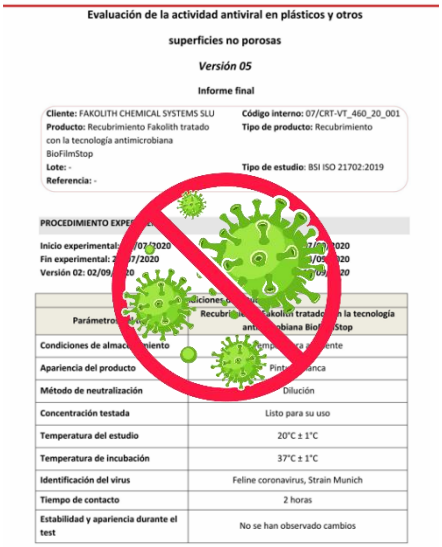
Until now, the antimicrobial activity of our paints and varnishes treated with our BioFilmStop technologies was already known and certified. On the one hand, the FoodGrade range of paints and varnishes (direct contact with food) already showed high effectiveness against pathogenic bacteria, and the Hygienic BioFilmStop range, in addition to bacteria, also against molds.

Both ranges have now been compared and tested, in relation to their activity against Coronavirus. The results confirm that, **after 2 hours of contact on the surface of BioFilmStop hygienic coating, the viral load is reduced by 99.49% with respect to the initial inoculation**, and in the case of the FoodGrade coating the reduction reaches 94.11%.

Summary of results		**log**	**Virus units**	**Virus units**	**Reduction % viral load**
Initial virus inoculated	U0	7,04	10^7,04	10.964.781,96	INICIAL
FoodGrade Coating	Ut	5,81	10^5,81	645.654,23	-94,11%
Hygienic BioFilmStop Coating	At	4,75	10^4,75	56.234,13	**-99,49%**

If we compare between both ranges we see that the reduction is 91.29%, higher in the Hygienic BioFilmStop range than in the FoodGrade range, although both samples show a high degree of reduction in viral load in relation to the initial inoculation, and in a short period of time contact.

A scientific study published by "The New England Journal of Medicine", confirms that the Coronavirus SARS COV2 can remain active on plastic surfaces even 72 hours, so reducing up to 99.49% viral load in just 2 hours of contact, is good news.



Evaluación de la actividad antiviral en plásticos y otros superficies no porosas

Versión 05

Informe final

Cliente: FAKOLITH CHEMICAL SYSTEMS SLU
Producto: Recubrimiento Fakolith tratado con la tecnología antimicrobiana BioFilmStop
Lote: -
Referencia: -
Código interno: 07/CRT-VT_460_20_001
Tipo de producto: Recubrimiento
Tipo de estudio: BSI ISO 21702:2019

PROCEDIMIENTO EXPE

Inicio experimental: 07/2020
Fin experimental: 07/2020
Versión 02: 02/09/20

Parámetro	Recubrimiento Fakolith tratado con la tecnología antimicrobiana BioFilmStop
Condiciones de almacenamiento	Temperatura ambiente
Apariencia del producto	Pintura blanca
Método de neutralización	Dilución
Concentración testada	Listo para su uso
Temperatura del estudio	20°C ± 1°C
Temperatura de incubación	37°C ± 1°C
Identificación del virus	Feline coronavirus, Strain Munich
Tiempo de contacto	2 horas
Estabilidad y apariencia durante el test	No se han observado cambios

These preliminary external tests allow us to confirm something that we already knew from tests carried out by some of our clients more than 10 years ago, but that we had not tested at present.

In any case, these data represent an initial evaluation, which allows us to confirm that Fakolith coatings treated with BioFilmStop antimicrobial technologies have been offering high effectiveness against bacteria, biofilm, fungi, and also against Coronavirus for many years.

Fakolith, thanks to its constant participation in official R+D+i projects, related to the antimicrobial capacity in surface technologies of hygienic and foodgrade coatings, has a test plan that will allow to evaluate, among other aspects; a wider spectrum of viruses and other pathogenic microorganisms, to obtain comparative data with different standards, to compare real and non-ideal laboratory situations, to verify its effectiveness on surfaces after cleaning and disinfection, and all this in different types of coatings, differentiated by their primary function, but always treated with our BioFilmStop technologies. This is an ever-evolving range of coatings, which is growing and enriching in parallel with the research that is optimizing the BioFilmStop and FoodGrade technologies.

INNOVATIVE SME

Valid until Nov 15th 2021

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

If we have already painted, or we paint now with a Fakolith coating with BioFilmStop technology, does the risk of Coronavirus end?

BioFilmStop technologies are an additional powerful weapon in the fight against pathogenic microorganisms, including coronaviruses, technologies that incorporate our entire range of hygienic and foodgrade coatings. However, we must be aware that unfortunately there is a need for various holistic measures with a barrier effect, which together optimize the hygienization and disinfection of surfaces.

Just by looking up we see that we are surrounded by surfaces with coatings, paints and varnishes. Especially in high-stress sectors, such as the food industry and those related to health protection such as hospitals, clinics, the pharmaceutical industry, cosmetics, etc., numerous certifications and excellent technical properties are demanded for paints and coatings. Therefore the primary functions of our Hygienic and FoodGrade coatings cover high certified technical requirements such as:

- CE marking.
- High physical-chemical resistance.
- High resistance to cleaning and disinfection.
- Low odor, low VOC, zero VOC.
- High coverage and adherence on multiple surfaces
- High resistance to wet rubbing and leaching.
- High elasticity and/or high resistance to abrasion
- High waterproofing or perspiration, as appropriate.
- Suitable for drying and curing in extreme conditions.
- Certifications for clean rooms.
- Global and specific migration tests, organoleptic, in the FoodGrade range.
  And a long etc. of primary properties and functions of technical coatings.

It would be of little use to certify a coating with high antimicrobial properties, if it is not prepared to resist and endure properly, under technical and industrial use conditions. If the paint matrix fails, the rest fails.

However, if we comply with all the above, we add a barrier effect against pathogenic microorganisms, we will be improving very significantly the prevention and hygienic maintenance of surfaces, by transforming surfaces that can be vectors of infection, in additional protection shields. If the surfaces are more hygienic, so are the environments and their surroundings, by reducing cross-contamination.

In no case do we consider that the use of Fakolith Hygienic or FoodGrade paints excludes the need to carry out cleaning and disinfection processes against fungi, viruses and bacteria, whether in the food industry, the healthcare sectors, other public or private spaces, as well as in the home. However, we can say that we will greatly improve overall safety and hygiene, which depends on holistic measures. On the part of Fakolith we would like to highlight:

1. Choose the appropriate registered disinfectant, such as BioFilmStop Cleaner, and always try to optimize the application method and equipment, improve training, protocols and post L+D control.

2. Additional prevention of multiple surfaces of walls, ceilings, floors, equipment, etc. painted with Fakolith Hygienic or FoodGrade coatings, treated with BioFilmStop technologies.

3. Always follow the official health recommendations (social distance, adequate use of mask and other individual and collective protective equipment, adequate washing and disinfection of hands and surfaces, etc.)

The BioFilmStop treated coatings that have already been offering broad-spectrum antimicrobial protection (including Coronavirus) for many years, are:

Hygienic range, treated with BioFilmStop technology (against molds, bacteria, biofilms, Coronavirus)

- Disperlith Industry
- Disperlith Elastic
- Disperlith Pox
- Renolith FK-32
- Disperlith Extreme FK-31
- Fakolith FK-45 Hygienic Forte (barniz y pintura)

FoodGrade range, treated with the special food contact BioFilmStop technology: (against bacteria, biofilm, Coronavirus)

- DISPERLITH FoodGrade Elastic
- DISPAINT FoodGrade
- VARNIPACK FoodGrade
- FK-45 FoodGrade (Barniz y pintura)
- FK-45 FoodGrade Hygienic
- FK-100 FoodGrade
- FAKOPUR FoodGrade
- DISPERSOL FoodGrade
- FK-450 FoodGrade

Gama ECOLABEL, tratada con BioFilmStop, Ecolabel (contra bacterias, biofilm, Coronavirus)

- DISPERLITH Hygienic

We will continue to inform you of new trial results in progress.

FAKOLITH Chemical Systems (25-09-2020)
Dpto I+D+i