# DISPERLITH HYGIENIC

# Hygienic coating with film protection against mold, viruses and bacteria



#### Type of material

DISPERLITH HYGIENIC is a high-performance, disinfectant-resistant, dispersion-based interior coating that has been specially developed for use in hospitals and medical facilities.

DISPERLITH HYGIENIC is highly resistant to commonly used disinfectants and a broad spectrum of hospital pathogens. The antimicrobial effect develops on the surface of the coating. It supports the maintenance of the highest hygiene standards and contributes to the prevention of infection.

The coating is easy to apply and provides a long-lasting, robust surface that meets the demanding requirements of the medical sector.

# **Properties**



BioFilmStop

**Technology** 

- Awarded the "ECO-Label" environmental quality mark
- Surface protection against mold, viruses and bacteria thanks to tested BLUE-BIO.FILM.STOP technology (DIN EN 15457:2014-11, ISO 21702:2019-05, ISO 22196:2011-08).
- Recommended by the Federal Association of Food Inspectors of Germany e.V.
- Resistant to disinfectants (TÜV SÜD).
- Wet abrasion: Class 1 (< 5 μm)</p>
- Opacity class 1 (> 260 ml/m²)
  Opacity class 2 (250-200 ml/m²)
- SD value = 0.035 m (V1), high vapor diffusion)
- W value = 0.9 kg/(m² x h<sup>0.5)</sup>, W<sub>1</sub>
- Odorless
- Suitable for daily cleaning
- Quick-drying
- Excellent adhesion behavior



Recommended by the Federal Association of Food Inspectors of Germany e.V.

DISPERLITH HYGIENIC emulsion paint has been awarded the EU ECO-LABEL quality seal. The test mark is a reference for consumers to identify more environmentally friendly and healthier products. Due to the ECO-LABEL certification and the use of alternative active substances, the microbial surface protection of the coating has a reduced protective effect compared to FAKOLITH anti-mould paints.

The DISPERLITH HYGIENIC paint film offers protection against microbial infestation (mold, viruses, bacteria, yeasts) in the event of a temporary increase in humidity indoors. The high vapor diffusion of the paint prevents condensation from forming on the surface of an absorbent substrate.

DISPERLITH HYGIENIC offers an environmentally friendly alternative to commercially available mold protection paints for interiors used by sensitized persons.

## **BLUE-BIO.FILM.STOP** technology

The selected combination of active substances creates a paint film with high qualitative and quantitative resistance to fungi, viruses and bacteria. The tests were carried out in accordance with DIN EN 15457:2014-11 (Testing the effectiveness of film protection - Aspergillus, Cladosporium, Penicillium), ISO 21702:2019-05 (Measurement of antiviral activity on plastics - Feline coronavirus,



Strain Munich) and ISO 22196:2011-08 (Measurement of antibacterial activity on plastics - Escherichia coli, Listeria monocytogenes, Bacillus subtillis, Pseudonomas aeruginosa). The BIO.FILM.STOP technology provides preventive action during the reversible microbial growth phase. The formation of a biofilm on the surface of the coating is demonstrably inhibited by the BioFilmStop prophylaxis.

DISPERLITH HYGIENIC with BLUE-BIO.FILM.STOP technology complies with the food hygiene requirements of Regulation (EC) 852/2004, Chapter II, "Special provisions for rooms in which food is prepared, handled or processed".

#### Disinfectant resistance

Disinfectant resistance is certified by TÜV Süd, test report no. 160810-2 dated 10.08.2016. Restriction when using the disinfectant Lysoformin special in maximum application. Here, the surface shows no impairment after multiple applications, but a slight yellow discoloration. The surface is easy to clean and disinfect due to the structure of the coating.

#### ECO label

DISPERLITH HYGIENIC has been awarded the EU Ecolabel in accordance with EU 2014/312/EU and is registered under the number ES-CAT/044/0001. Further information on the award of the Ecolabel for this product is available at this address: <a href="http://ec.europa.eu/environment/ecolabel">http://ec.europa.eu/environment/ecolabel</a>

#### Areas of application

DISPERLITH HYGIENIC is particularly recommended for use as a ceiling and wall coating in

- Medical facilities,
- retirement homes,
- Laboratories.
- Sanitary areas and
- Living spaces.

Thanks to BLUE-BIO.FILM.STOP technology, the paint film offers maximum sterility for wall and ceiling surfaces as part of ECO-Label certification.

#### Further recommendation:

For clean rooms or substrates that come into direct contact with food or pharmaceuticals, we recommend our products DISPERLITH FOODGRADE, FK 45 FOODGRADE, FK 100 FOODGRADE and FAKOPUR FOODGRADE, tested in accordance with Regulation (EC) 1935/2004, Regulation (EC) 1895/2005, Regulation (EC) 2023/2006, Regulation (EU) 10/2011, Regulation (EU) No. 1282/2011 for direct contact with food. If you have any questions, please contact our technical department.

# HACCP

FAKOLITH Chemical Systems is an associate member of the CNTA and a participating partner in official R&D projects relating to technically advanced coatings for the food industry and the healthcare sector.



FAKOLITH Chemical Systems is registered both in the health register for the food industry of the Spanish province of Catalonia (Registro Sanitario de Industrias y Productos Alimenticios de Cataluña, RSIPAC) under the number 39.05377/CAT and in the Spanish health registration system of the food industry (Registro General Sanitario de Empresas Alimentarias y Alimentos, RGSEAA) under the number ES-39.005259/T. FAKOLITH Chemical Systems guarantees the manufacture of products of impeccable quality as part of the implementation of the internal HACCP concept. Production traceability is guaranteed in accordance with Regulation (EU) 1935/2004/EC.



FAKOLITH Farben GmbH and FAKOLITH Chemical Systems have been certified according to the DIN EN ISO 9001:2008 quality management system since 2006. Cert. no. 01100071679/01.

#### Substrates

Substrate pre-treatment according to VOB. The substrates must be dry, free of dirt and separating substances. Observe VOB, Part C, DIN 18363, Para. 3. The substrate pre-treatment depends on the substrate:

#### Concrete:

If necessary, remove release agent residues with FAKOLITH FK 11 Cleaner. Remove sanding substances and pre-treat the substrate with FAKOLITH FK 16 Deep Primer.

#### Mineral plasters:

Prime with FAKOLITH FK 16 Deep Primer or DISPERLITH PRIMER.

#### • Substrates infested with mold and bacteria:

Clean with FAKOLITH FK 12, diluted 1:4 with water. Then coat generously with FAKOLITH FK 14 aqueous antifungal solution. After cleaning, check the substrate for strength and apply FAKOLITH FK 16 deep penetrating primer if necessary.

DISPERLITH PRIMER can be used as an alternative to FAKOLITH FK 14 Antifungal and FAKOLITH FK 16 Deep Primer. Application of DISPERLITH PRIMER from +4°C.

#### • Yeast and bacteria infested substrates:

Clean with FAKOLITH FK 39. Then coat generously with FAKOLITH FK 14 aqueous antifungal solution. After cleaning, check the substrate for strength and apply FAKOLITH FK 16 deep penetrating primer if necessary.

DISPERLITH PRIMER can be used as an alternative to FAKOLITH FK 14 and FAKOLITH FK 16. Application of DISPERLITH Primer from +4°C.

#### • Surfaces soiled with grease, oil, soot:

Clean with FAKOLITH FK 11, diluted 1:20 with water. After cleaning, check the substrate for strength and apply FAKOLITH FK 16 Deep Penetrating Primer if necessary.

# • Non-load-bearing coatings:

Remove and clean the substrate. Apply FAKOLITH FK 16 Deep Primer or DISPERLITH PRIMER.

#### • Sustainable emulsion paints:

Check the strength of the old coating(s). Clean the substrate. If necessary, consolidate chalking surfaces with FAKOLITH FK 16 Tiefgrund or DISPERLITH PRIMER.

Please read the technical information and safety data sheets before application. Note the substrate moisture, check the strength of the old coating using a crosscut and clarify the spatial/temporal conditions at the property.

Carrying out renovation and maintenance work in rooms used for industrial purposes requires sound planning. We recommend asking about the individual coating requirements and clarifying the conditions on site before starting work:

 Which cleaning agents are used in which concentration, at which temperature and how often during the daily production process?



	- How high are the temperatures/humidity during the renovation work?
	We recommend coordinating the work in detail, taking into account the processing conditions and the expected drying times. When will production start again? What moisture load is to be expected and when will the first cleaning of the renovated section take place?
Processing	Can be applied using a brush, roller, or airless spray system.  We recommend the following settings for spray application:
	Nozzle = 5/17. spraying pressure 200 bar. Application: Dilute 5% with water.
Binder	Copolymers of vinyl acetate and ethylene.
VOC content	Class: a (Wb), VOC-free.  Maximum 30 g/l VOC (Directive 2004/42/EC).  Maximum 10 g/l VOC (EcoLabel).  The product contains less than 0.09 g/l VOC and has an SVOC content of 3.25 g/l.
Pigmentation	Titanium dioxide rutile
Density	Density (23 °C ± 0.5): 1.38 ± 0.02 g/cm <sup>3</sup>
Flash point	Not applicable
Viscosity	Viscosity (ASTM 3, 250 rpm, at 25°C ± 0.5): 1500 mPa-s. ± 250
Solids	50% ± 2%
Gloss level	Matt (DIN 13300)
P.V.C.	65 % ( pigment volume concentration )
Shade	White. Tinting ex works on request.
Tinting pastes	With colorant concentrates such as Mixol up to max. 3 %.
Consumption	Approx. 250 ml/m². The consumption depends on the structure and absorbency of the substrate. Apply in 2 coats.
Dilution	DISPERLITH HYGIENIC is an aqueous product that is supplied ready for use. The first coat can be diluted up to 5 % with drinking water.
Drying time	Drying time between coats 3h, completely dry after approx. 24h. Fully cured and ready for cleaning or disinfection after approx. 48h (20°C/60% relative humidity).
	- Open time (125 μm) at 20°C, 30% relative humidity = 25min - Open time (125 μm) at 10°C, 65% relative humidity = 45min
Application temperature	From +10 °C, both for the substrate and for the ambient temperature ( $T_G$ = 10.5°C - MMFT 0°C). Maximum air humidity during application 70%. Pay particular attention to condensation on metallic substrates.



Compatibility	Do not mix with other colors.
Storage	24 months in a sealed container in a cool environment. Do not store at temperatures below +5 °C or above 25 °C. Use the contents after opening the packaging.
Container	5 and 12.5 liter plastic containers.
Occupational safety	Exclusive product for professional use. For correct handling, read the safety data sheet, use your personal protective equipment and take the prescribed measures.
Waste disposal	Dispose of liquid components in accordance with local hazardous waste regulations, preferably via incineration. The product can be disposed of with household waste after curing.
Note	A successful renovation requires professional planning and detailed documentation. We offer you the "FAKOLITH checklists" and property-related "renovation concepts" for this purpose. The documents are available on the Internet at www.fakolith.de. Our application technology team will be happy to provide you with personal advice.
Safety data sheet	

# LEGAL NOTICE:

The companies FAKOLITH Farben GmbH and FAKOLITH Chemical Systems S.L.U. are certified according to the quality management system DIN EN ISO 9001:2015 by TÜV Rheinland Cert. No. 01100071679/01.



This technical information and recommendation regarding the processing and use of the product is based on our current knowledge and experience using standard situations and on the use of the product

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