Type of material

ECO-LABEL certified dispersion-based hygiene coating. The environmentally friendly ceiling and wall coating is suitable for rooms that are exposed to increased humidity in phases. The application of modern BLUE-BIO.FILM.STOP technology protects the paint film from the infestation of mold, viruses and bacteria.

The coating DISPERLITH HYGIENIC convinces by a hygienic indoor climate and is especially recommended for the application in living areas as well as in public rooms and in health care.

Properties

- Awarded with the environmental quality mark "ECO-Label"
- Surface protection against mould, virus and bacteria infestation with 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 Germany e.V.
- Disinfectant resistance (TÜV SÜD).
- Wet abrasion resistance: Class 1 (< 5 µm)
- Opacity class 1 (> 260 ml/m^2)
  Opacity class 2 (250-200 ml/m^2)
- SD value = 0.035 m (V1), high vapor diffusion)
- W value = 0.9 kg/(m² x h ^{0,5}), W $_1$
- Odorless
- Suitable for daily cleaning
- Fast drying
- Excellent adhesion behavior
- 0.0 VOC acc. to DIN EN ISO 11890-2:2007

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

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

For a phased short-term increased humidity indoors, the paint film of DISPERLITH HYGIENIC provides protection against microbial infestation (mold, viruses, bacteria, yeasts). Due to the high vapor diffusion of the paint, condensation on the surface is avoided in the case of an absorbent substrate.

DISPERLITH HYGIENIC offers an environmentally friendly alternative to commercially available anti-mold paints for indoor use by sensitized individuals.

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 (measuring antiviral activity on plastics - Feline coronavirus, Strain Munich) and ISO 22196:2011-08 (measuring antibacterial activity on

plastics - Escherichia coli, Listeria monocytogenes, Bacillus subtillis, Pseudonomas aeruginosa). BIO.FILM.STOP technology has a preventive effect in the reversible phase. The formation of a biofilm on the surface of the coating is demonstrably inhibited by 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 applicable to rooms where food is prepared, treated or processed."

Disinfectant resistance
The disinfectant resistance is confirmed by the test report of TÜV-Süd No. 160810-2 dated 10.08.2016. Limitation when using the disinfectant Lysoformin spezial 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 number ES-CAT/044/0001. Further information on the eco-label award for this product is available at this address: http://ec.europa.eu/environment/ecolabel

Areas of application

DISPERLITH HYGIENIC is especially recommended for application as a ceiling and wall paint.

- Living rooms
- Offices
- Medical practices
- Retirement homes
- Laboratories
- Sanitary areas

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

Further recommendation:

For clean rooms or substrates in direct contact with food or pharmaceuticals, we recommend our products DISPERLITH FOODGRADE, FK 45 FOODGRADE, FK 100 FOODGRADE and FAKOPUR FOODGRADE, tested according to VO (EC) 1935/2004, VO (EC) 1895/2005, VO (EC) 2023/2006, VO (EU) 10/2011, VO (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 CNTA and a participating partner in official R&D projects related to technically advanced coatings for the food industry and the healthcare sector.

FAKOLITH Chemical Systems is registered both in the Health Registry of 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 Registry 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 production of products of impeccable quality as part of the implementation of the company's internal HACCP concept. According to VO (EU) 1935/2004/EG the traceability of the production is guaranteed.

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

Substrates

Substrate preparation in accordance with the German Construction Contract Guidelines (VOB). Substrates must be dry and free from contamination and separating substances. Observe German Construction Contract Guidelines (VOB), Section C, DIN 18363, part 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 pretreat substrate with FAKOLITH FK 16 Deep Penetrating Primer.

- **Mineral plasters:**
  Prime with FAKOLITH FK 16 Deep Primer or DISPERLITH PRIMER.

- **Mold and bacteria** infested substrates:
  Clean with FAKOLITH FK 12 diluted 1:4 with water. Then apply FAKOLITH FK 14 aqueous antifungal solution generously. After cleaning, check substrate for strength and, if necessary, apply FAKOLITH FK 16 deep primer.

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

- **Yeast and bacteria** infested substrates:
  Clean with FAKOLITH FK 39. Then apply FAKOLITH FK 14 aqueous antifungal solution. After cleaning, check substrate for strength and, if necessary, apply FAKOLITH FK 16 deep primer.

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

- Substrates with **soiling due to grease, oil, soot:**
  Clean with FAKOLITH FK 11 diluted 1:20 with water. After cleaning, check substrate for strength and, if necessary, apply FAKOLITH FK 16 Deep Primer.

- **Coatings** that **are not load-bearing:**
  Remove and clean substrate. Apply FAKOLITH FK 16 Deep Primer or DISPERLITH PRIMER.

- **Load-bearing emulsion paints**:
  Check the strength of the old coating(s). Clean substrate. If necessary, solidify chalky surfaces with FAKOLITH FK 16 Deep Primer or DISPERLITH PRIMER.

Please read the technical information and safety data sheets before application. Observe substrate moisture, check the strength of the old coatings by means of cross-cutting and clarify the spatial/temporal conditions on the object.

Carrying out renovation and maintenance work in industrially used spaces requires sound planning. We recommend inquiring about the individual requirements for the coating and clarifying the conditions on site before starting the work:

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

- What are the temperatures/humidity during the execution of the renovation works?

	We recommend detailed coordination of the work, taking into account the processing conditions and the expected drying times. When will production start up again? What moisture load is to be expected and when will the first cleaning of the renovated section take place?
Processing	Application by brush, roller or airless spraying. We recommend the following settings for spray processing: Nozzle = 5/17. Spray 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 and has a SVOC content of 3.25 g/l.
Pigmentation	Titanium dioxide rutile
Density	Density (23 ºC ± 0.5): 1.38 ± 0.02 g/cm^3
Flash point	Not applicable
Viscosity	Viscosity (ASTM 3, 250 rpm, at 25ºC ± 0.5): 1500 mPa-s. ± 250
Solid materials	50% ± 2%
Gloss level	Matt (DIN 13300)
P.V.C.	65 % (pigment volume concentration)
Colour shade	White. Tinting ex works on request.
Tinting paste	With dye concentrates such as Mixol up to max. 3 %.
Consumption	Approx. 250 ml/m². Consumption depends on the structure and absorbency of the substrate. Application in 2 layers.
Dilution	DISPERLITH HYGIENIC is an aqueous product supplied ready for use. The first coat can be diluted up to 5% with drinking water.
Drying time	Drying time between coats 3h, fully dry after approx. 24h Fully loadable, e.g. for cleaning/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 $_G$= 10.5ºC - MMFT 0ºC). Maximum humidity during application 70%. Pay attention to condensation, especially on metallic substrates.
Compatibility	Do not mix with other colors.

Storage	24 months in a closed container in a cool environment. Do not store at temperatures below +5 °C or above 25 °C. After opening the package, use the contents.
Container	5 and 12.5 liter plastic containers.
Occupational safety	Exclusive product for professional use. For proper handling, read the safety data sheet, use your personal protective equipment and take the prescribed measures.
Disposal	For disposal, observe local regulations. Dispose of liquid component in a suitable incinerator. The product can be disposed of with household waste after curing.
Note	A successful renovation requires professional planning and comprehensive documentation. We can offer you the “FAKOLITH Checklists” and the property-related “Renovation Concepts” for this purpose. These documents are available on the internet at www.fakolith.de. Our consultants would be very happy to offer you a personal consultation.
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, Cert. No. 01100071679/01.

Management System ISO 9001:2015
TÜVRheinland ZERTIFIZIERT
www.tuv.com ID 9105043000

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Technical information 12.10.2021