Chemical and cleaner-resistant emulsion paints. Suitable as ceiling and wall coating in areas that demand the highest hygiene. DISPERLITH ELASTIC is particularly recommended as a protective coating in damp areas used for industrial applications, for example production and storage areas in the food industry.

**Properties**

- Protection against mould and bacteria due to *BioFilmStop technology*
- Wet abrasion resistance: Class 1 (< 5 µm)
- Opacity class 1 (< 5 m²/L / C1)
- sd-value = 1.57 (V3)
- w-value = 0.03 kg/(m² x h0.5), (W3)
- Can be used at substrate temperatures up to + 4°C
- High level of resistance to chemicals
- Fast-drying
- Excellent adhesion
- Suitable for renovating of metal panels/sandwich panels

The modern BioFilmStop technology protects the paint film against contamination from mould and bacteria. DISPERLITH ELASTIC with BioFilmStop technology complies with the requirements for food hygiene in accordance with Regulation (EC) 852/2004, chapter II, “Specific requirements in rooms where foodstuffs are prepared, treated or processed.”

The aqueous, odourless 1K coating excels due to its good finishing properties and an extremely high level of adhesion to a wide range of substrates. It is resistant to a large number of acidic and alkaline cleaning agents used in the food industry. The satin finish surface of the coating is easy to clean and disinfect.

DISPERLITH ELASTIC is fast-drying and has a low film formation temperature. Drying is also guaranteed at temperatures of just +4°C (max. 70% relative air humidity). DISPERLITH ELASTIC produces a resistant film with a satin finish that is easy to clean and disinfect and offers protection against microbial infestation.

**Areas of application**

DISPERLITH ELASTIC is particularly suitable for applications

- in industry
- in companies that produce food
- in indoor swimming pools and sanitary facilities
- in the health care system

for coating/renovating ceiling, wall and plinth areas.

Examples of suitable substrates are

- Mineral substrates
- Metal panels / sandwich panels (primed)
- Old coatings
- Sheetrock, and other substrates.

The physical properties of the coating as a surface protector have been successfully tested and confirmed in long-term studies both in the laboratory and on location.
Additional recommendation:

Legal provisions and certification
FAKOLITH Chemical Systems has developed its HACCP concept in collaboration with the National Centre for Food Technology and Safety (CNTA). FAKOLITH Chemical Systems is an associate member of the CNTA and a participating partner in official R&D projects that relate to technically high-quality coatings for the food industry and the health care sector.

FAKOLITH Chemical Systems is registered both in the Health Registry for the food sector in the Spanish province of Catalonia (Registro Sanitario de Industrias y Productos Alimenticios de Cataluña, RSIPAC) under number 39.05377/CAT and also in the Spanish health recording system of the food industry (Registro General Sanitario de Empresas Alimentarias y Alimentos, RGSEAA) under number ES-39.005259/T. The registration complies with the current European requirements on companies that produce foods or products for the food industry. As part of implementing our in-house HACCP concept, FAKOLITH Chemical Systems guarantees we manufacture qualitatively flawless products. The traceability of production is guaranteed in accordance with Regulation (EU) 1935/2004/EC.

The companies FAKOLITH Farben GmbH and FAKOLITH Espana S.L. have been certified since 2006 under the DIN EN ISO 9001:2008 quality management system. 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. Take into account: German Construction Contract Guidelines (VOB), Section C, DIN 18363, part 3. Substrate pre-treatment:

- **Concrete:**
  If necessary, remove any release agent residues with FAKOLITH FK 11 Cleaner. Remove any crumbling substances and pre-treat the substrate with FAKOLITH FK 16 Primer.

- **Mineral plasters:**
  Primer coat with FAKOLITH FK 16 Primer.

- **Substrates contaminated with moulds and bacteria:**
  Clean with FAKOLITH FK 12, diluted 1:4 with water. Then, coat well with FAKOLITH FK 14 aqueous anti-fungal solution. Clean the substrate and then test for stability and apply FAKOLITH FK 16 Primer if necessary.

  The new DISPERLITH PRIMER primer coat can be used as an alternative to FAKOLITH FK 14 Anti-fungal and FAKOLITH FK 16 Primer. DISPERLITH PRIMER can be used above +4°C.

- **Substrates contaminated with yeasts and bacteria:**
  Clean with FAKOLITH FK 39. Then, coat well with FAKOLITH FK 14 aqueous anti-fungal solution. Clean the substrate, then test for stability, and apply FAKOLITH FK 16 Primer if necessary.

  The new DISPERLITH PRIMER primer coat can be used as an alternative to FAKOLITH FK 14 and FAKOLITH FK 16. DISPERLITH PRIMER can be used above +4°C.
- Substrates with impurities of grease, oil, soot:
  Clean with FAKOLITH FK 11, diluted 1:20 with water. Clean the substrate and then test for stability and apply FAKOLITH FK 16 Primer if necessary.

- Imperfections and cavities:
  Restore with FAKOLITH FK 13 Emulsion Filler.

- Unstable coatings:
  Remove and clean substrate. Apply FAKOLITH FK 16 Primer or DISPERLITH PRIMER.

- Stable emulsion paints:
  Test the stability of the old coating(s). Clean substrate. If necessary, strengthen chalking surfaces with FAKOLITH FK 16 Primer or DISPERLITH PRIMER.

- Iron, steel, stainless steel, aluminium:
  Information about methods for surface preparation can be found in DIN EN ISO 12944-4 and in our "Surface Preparation" leaflet.

  Primer coats on metal/stainless steel/aluminium:
  - Without old coating: FAKOLITH FK 44
  - With old coating: FAKOLITH FK 44-POX

  Both primers provide excellent protection against corrosion. Aqueous FAKOLITH FK 44-POX 2K primer is odourless and can be used at temperatures of > +3°C. The minimum processing temperature of FK 44 is +10 °C.

Please read the technical information and safety data sheets before working with the product. Observe the dampness of the substrate, check the stability of the old coatings by making a cross-cut and clarify the spatial/time conditions at the location.

Implementation of renovation and maintenance work in damp areas used for industrial purposes requires well-founded planning. Before starting the work we recommend that you enquire about the following facts, to select the product appropriate to the requirements for the renovation:

- Which cleaning agents will be used at what concentration and temperature, and how frequently will they be applied during the daily production process?

- How high will the temperatures/the air humidity be while the renovation work is being carried out?

- FOODGRADE or BioFilmStop coating? Is certification for direct contact with foods in accordance with Regulation (EC) 1935/2004 and Regulation (EU) 10/2011 needed? Or is it a coating with surface protection against microbial attack (mould and bacteria) that is required?

- We recommend detailed coordination of the work, taking into account the processing conditions and the drying periods that are expected. When does the production start up again? What level of moisture load is to be expected, and when will the first cleaning of the renovated section be carried out?
Processing

Processing with paintbrush, roller or an airless spraying procedure. We recommend the following settings for the spraying procedure:

VOC content

Class: a (Wb)
Maximum 30g/l VOC (Directive 2004/42/EC). The product contains 0.99g/L VOC.

Pigmentation

Titanium dioxide-rutile.

Density

Density (23 °C ± 0.5) DFG paint: 1.30 ± 0.02 g/cm3.

Flash point

Not applicable

Viscosity

VISCOSITY (ASTM 3, 250 rpm, at 25°C ± 0.5) DFG paint: 1750 mPa•s. ± 250
VISCOSITY (ASTM 3, 250 rpm, at 25°C ± 0.5) DFG varnish: 190 mPa•s. ± 250

Solid materials

57% ± 2%

Gloss level

Silk-matte.

P.V.C.

31% (pigment volume concentration)

Colour shade

White. Tinting from factory upon request.

Tinting paste

With concentrated bonding agent-free tinting pastes, e.g. Mixol up to maximum 3%.

Consumption

A minimum of 200-400 ml/m², depending on the condition and type of the substrate. Apply in 2-3 layers.

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**DISPERLITH ELASTIC (7 days- 23°C - 50% relative air humidity)**

<table>
<thead>
<tr>
<th>Application thickness</th>
<th>Coating thickness - consumption</th>
<th>Theoretical coverage *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>dry</td>
<td>wet</td>
</tr>
<tr>
<td>medium</td>
<td>100 µm</td>
<td>200 µm ± 2%</td>
</tr>
<tr>
<td>high</td>
<td>200 µm</td>
<td>400 µm ± 2%</td>
</tr>
</tbody>
</table>

Dilution

DISPERLITH ELASTIC is supplied ready-to-use. Depending on the absorbency of the substrate, the first coating can be diluted with drinking water to a maximum of 5%.

Drying period

Generally, 1-2 hours per coating (+20°C and 60 % relative air humidity). The room temperature and the level of humidity determine the final drying period. As soon as the first coat is dull, the second coating can be completed.

- open time (125 µm) a 20°C, 30% Humidity = 15min
- open time (125 µm) a 10°C, 65%Humidity = 30min
In general, above a temperature of +4°C (60% relative air humidity), both for the substrate of the coating and for the ambient temperature (TG= 0°C – MFFT 0°C). Maximum air humidity at application 70%. Observe formation of condensation, in particular on metallic substrates.

**Guide values**

<table>
<thead>
<tr>
<th>Material</th>
<th>Adhesive strength DISPERLITH ELASTIC 100 µm dry layer thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>125 ± 25*</td>
</tr>
<tr>
<td>Wood</td>
<td>140 ± 10*</td>
</tr>
<tr>
<td>Sandwich panels</td>
<td>54 ± 5</td>
</tr>
<tr>
<td>Fibreglass</td>
<td>42 ± 5*</td>
</tr>
</tbody>
</table>

RCB = cohesion fracture of base         RA = Loss of adhesion
* In all cases in which a cohesion fracture of the base occurs, the adhesion values refer to the base and could vary.

The values that are given in the table were measured in our laboratory at 25 ± 2 °C and 50 ± 5% RH after a hardening period of 7 days. They are average values and serve as a guide. The suitability of the product should be tested and confirmed by a sample application on location.

Complementary

Compatibility

Do not mix with other paints.

Storage

24 months in a closed container in a cool environment. Do not store at temperatures of under 5°C or over 25°C. Use the contents immediately after the packaging has been opened.

Packaging

5- and 12.5- litre plastic containers.

Occupational safety

An exclusive product for professional use in the food industry. Always read safety datasheets to learn about correct handling, wear personal protective clothing, and take the necessary measures.

Disposal

Local regulations for disposal must be observed. Place liquid components into a suitable incinerator. The product can be disposed of with domestic waste after it has hardened.

Note

A successful renovation requires professional planning and comprehensive documentation. We can offer you the “FAKOLITH Checklist Food Industry” and the property-related “Renovation Concepts” for this purpose. Both documents are available on the internet at www.fakolith.de.

Our consultants would be very happy to offer you a personal consultation on location.
LEGAL NOTICE:

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

This technical information and recommendations relating to the processing and application of the product are based on our current knowledge and experiences with application in standard situations and from using the product within its shelf life. This information does not relieve the purchaser and/or the user from their obligation to determine whether our product range, our recommendations, or the technical quality and the properties of our products comply with their specific requirements. FAKOLITH reserves the right to update the properties and specifications of its products. Updated versions are published at www.fakolith.de. An updated version of this document will make the previous version invalid (see the issue date).

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