

DISPERLITH POX CE marked

BioFilm inhibiting and retardant water-based epoxy paint, treated with BioFilm Stop prevention technology. High resistance to humidity and its consequences: BioFilm, bacteria, mold... Interior finishing of walls, ceilings, baseboards, floors, etc.
In the food industry, health sector, industry in general,
CE 852/2004, CE 2023/2006 - With Declaration of Conformity - CE 852/2004, CE 2023/2006 - With Declaration of Conformity - With Declaration of Conformity - With Declaration of Conformity



TYPE OF MATERIAL

DISPERLITH POX is a CE marked, two-component waterborne epoxy paint formulated with special epoxy resins, with low emissions and low odor (Low Voc), free of APEO, ammonia, formaldehyde and heavy metals, with high resistance to humidity and its consequences: biofilm, bacteria, mold, alkalinity...

PROPERTIES

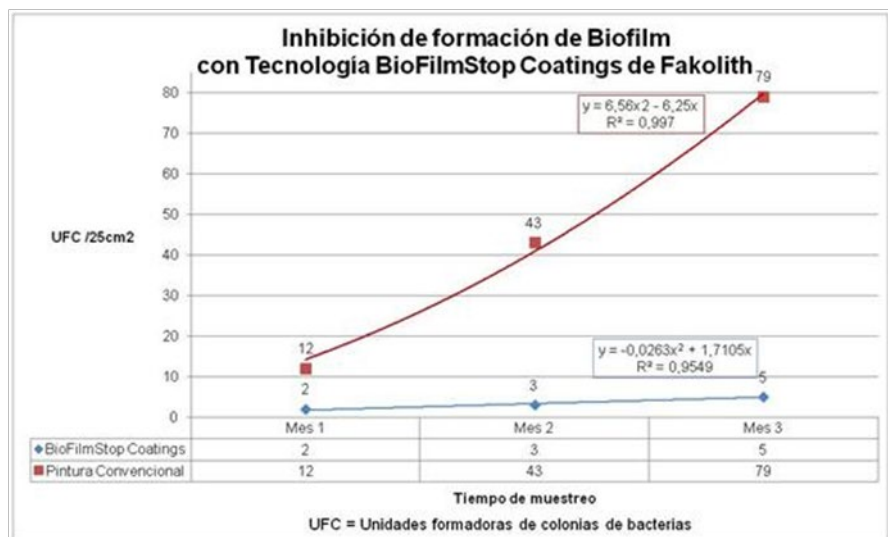
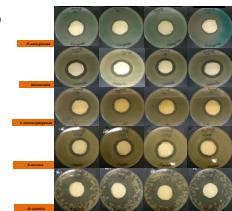
DISPERLITH POX forms a very balanced paint film, easy to apply, fast drying even at low temperatures, low odor and good finish, waterproof, which according to DIN EN 13300 is wet scrub resistant Class 1 (3.8µm), with coverage Class 1 (3.4m²/L- 290 ml/m²) and Class 2 (3.4m²/L-5.2m²/L 190ml/m²). Excellent adhesion on almost all types of bases. Highly resistant to abrasion, carbonation and alkalinity of the base. Paint resistant to most disinfectants' cleaners according to DIN EN ISO 4628-2: 2004-01 test conducted by TÜV SÜD Germany and/or Fakolith I+D+i. (For greater safety, please consult our Technical Department prior to use).



Product with CE marking. (Details in Declaration of Conformity - CE-performance)



The special nature of its resins, pigments and mineral fillers, together with the oligodynamic action of its latest generation active ingredients in synergy with novel nanotechnological compounds, provide the paint film with a high qualitative and quantitative resistance to molds and algae even after leaching-aging DIN-UNE EN 15457:2008 (*Aspegillus, Cladosporium, Penicillium, Algae...*) and also to bacteria ISO 22196:2011 (*Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus...*), especially in severe industrial or sanitary conditions.



The paint is an article treated with BioFilmStop Technology (Art 3. BPR) for film inhibition of bacteria and microorganisms. Regardless of the proven effectiveness of Fakolith BioFilmStop technology in the laboratory, its effectiveness has been validated in several comparative applications in real situations and for prolonged periods of use in the food sector, health, industry, schools..., all within the framework of the Official R&D&I project "Aplicons". The high oligodynamic effectiveness of the paint with BioFilmStop Technology is demonstrated, having a high effect in reducing the growth of bacteria and microorganisms by inhibition of the BioFilm, compared to that produced on a conventional paint, in a period extrapolated to a year of use. This means that Fakolith paints with BioFilm Stop technology have a great inhibitory effect on the creation of BioFilm in its



reversible phase, greatly slowing down the dangerous and invisible expansion of BioFilm on walls and ceilings.

Fakolith BioFilmStop technology brings an important innovation compared to traditional methods that act a posteriori when the Biofilm has already adhered to the surface in its irreversible phase with its maximum contamination potential. BioFilmStop acts in the reversible phase inhibiting and hindering the formation of the film and also delaying its appearance, that is, it acts preventively, also greatly reducing the risk of cross-contamination, improving the HACCP of the food industry, health sector, pharmaceutical... BioFilmStop technology helps and complements the current systems of detection, cleaning and disinfection of BioFilm, molds, yeasts and bacteria, providing greater food and sanitary safety.

TECHNICAL DATA

Recommended minimum layer thickness and theoretical performance:

| Film thickness - Consumption | | | Theoretical yield |
|------------------------------|--------|-------------------------------|-----------------------------|
| Dry thickness | wet | wet (ml-g/m ²) | |
| 125 µm | 250 µm | 250 ml ≈ 330 g/m ² | approx. 4 m ² /l |
| 250 µm | 500 µm | 500 ml ≈ 655 g/m ² | approx. 2 m ² /l |

The thicknesses in the table can be obtained in 1 or 2 coats of application, depending on the method used and/or recommended, either with airless, depending on the type of roller, brush and conditions of the base and environment, etc.

Indicative drying times:

| | | | |
|---|-------------|------------|-----------|
| 250 µm wet layer - 125 µm dry layer (Relative humidity 60-70%) | +5°C | + 20 ° C | + 30° C |
| Dry to the touch and repaintable with DISPERLITH POX | 2-3 hours | 45-60 min | 15-30 min |
| Completely dry | 12-24 hours | 8-12 hours | 4-6 hours |

Drying and recoating times will depend on film thickness, air temperature, relative humidity and ventilation.

Direct adhesion (DISPERLITH POX): 200 µm dry.

| Surface | Tensile adhesion (UNE-EN ISO 4624- 2002) (Kg/cm ²) | Adherence (Trellis cutting method - UNE- EN ISO 2409:2007) |
|----------------|--|--|
| Concrete | 210 ± 10Kg/cm ² (RCB) | Class 0 |
| Glass | 170 ± 5 Kg/cm ² (RCP) | Class 0 |
| Glazed tile | 150 ± 5 Kg/cm ² (RCB) | Class 0 |
| Sandwich panel | 20 ± 5 Kg/cm ² (RCP) | Class 0 |
| Fiberglass | 30 ± 5 Kg/cm ² (RCB) | Class 0 |

CPR= cohesive breakage of the paint; AR= adhesive breakage of the paint; CBR= cohesive breakage of the base.

Adhesion and shear values per grid are approximate. These results may vary depending on the actual state of the base coat, its correct preparation and application, and the thickness applied. The minimum recommended layer thickness and the drying and recoating times must always be respected.

It is up to the technician of each project to evaluate that the adhesion is suitable for its intended use.

THEORETICAL
POTLIFE

| A + B (2,5 L) | 5°C | 10°C | 20°C | 30°C |
|---------------------------|------|------|------|------|
| Shelf life of the mixture | 4 h. | 3 h | 2 h | 1 h |

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| Shelf life of the mixture | 4 h. | 3 h | 2 h | 1 h |

FIELDS OF USE

Especially suitable for use where maximum surface asepsis is a priority, as in the health sector, hospital, food industry, pharmaceutical sector, and industry in general. Recommended as a finish especially for concrete, interior walls and ceilings, sandwich panels, metal elements primed with FK-44 Pox and various compatible surfaces, etc. It provides excellent results for treating new bases, although it is especially suitable for surface renovations. Particularly suitable where solvent based products cannot be used and a high performance, low odor, fast drying paint is required.

CURRENT
REGULATIONS
APPLICABLE
FOOD

Fakolith Chemical Systems, has developed its HACCP and Sanitary Register of Industries and Food Products RSIPAC in force 39.05377/CAT, as well as the General Sanitary Register of Food Companies and Food RGSEAA in force ES-39.005259/T, in collaboration with the CNTA "National Center of Technology and Food Safety", being also an associated entity and partner in Official Projects of R+D+i related to paints of high technological value for the food industry and health sector.

DISPERLITH POX is suitable for painting enclosures where food is manufactured and handled, since Fakolith as an added value voluntarily complies with the European regulation 1935/2004/CE in terms of traceability and GLP good manufacturing practice CE 2023/2006, and also contributes positively to the compliance with the EC regulation 852/2004 and other private food quality regulations such as IFS, BRC, etc.
Estimated Euroclass B-s1, d0.

APPLICATION MODE

Incorporate progressively **Component A over Component B** in **slow mechanical agitation (do not do it backwards or the paint will thicken and will not be useful) until the mixture is completely homogenized**. Apply on properly prepared bases, 2 to 4 coats in total of DISPERLITH POX by brush, roller, spray or airless. Clean utensils immediately after use with water.

NOTE: Before starting any treatment, it should be determined that the conditions of the base and the environment are suitable and allow the proper application of the paint. Especially in the food industry, where in general renovations must be carried out in a short time and under severe conditions, schedule the application well and consult our technical advisory service.

AGLUTINANT

Epoxy resins and modified aliphatic amines.

VOC CONTENT

Category: j (BA)
Maximum 140 g/l VOC (Directive 2004/42/EC).
The product contains less than < 5g/l VOC.

PIGMENTATION

Titanium rutile dioxide.

DENSITY

Density Comp. A (23°C± 0.5): 1.60 ± 0.02 g/cm3.
Density Comp. B (23°C± 0.5): 1.04 ± 0.02 g/cm3.
Density A+B (23°C± 0.5): 1.35 ± 0.02 g/cm3.

VISCOSITY

Viscosity A+B (ASTM 3, 250 rpm, at 23°C± 0.5): 1350 mPa·s. ± 250

CONT. SOLIDS

40% ± 2%

DEGREE OF GLOSS

Satin

C.V.P

30% (Pigment concentration by volume)

| SERIES COLORS | White as standard. Consult color availability and minimum order. | | | | | | | | | |
|---------------------------------------|---|-------------------|-----------|----------|--------------------|-----------------|------------------|--------------------|-----------------|-------------------|
| COLORS ON SITE | With concentrated colorants such as Mixol oxides, at a maximum of 3%. | | | | | | | | | |
| MINIMUM CONSUMPTION | Depending on the condition and type of base, no less than: <ul style="list-style-type: none"> - 200-250 ml/m², applied in 2 to 4 coats, for walls and ceilings. - 500 ml/m², applied 2 to 4, for floors and baseboards. | | | | | | | | | |
| DISSOLUTION | DISPERLITH POX is a water-based product, which is supplied ready for application, dilution is not recommended, always keep the mixing ratio of both components. | | | | | | | | | |
| DRYING TIME | As a general rule from 1 to 2 hours each coat (+20° C and 60% relative humidity). The ambient temperature and humidity level will determine the final drying time. From the moment in which the degree of brightness is matte, the second coat can be applied. <p>-Open Time (125 µm) at 25°C, 70% Hr = 25min -Open Time (125 µm) at 10°C, 60% Hr = 45min</p> | | | | | | | | | |
| MIXTURE RATIO | <table border="1"> <thead> <tr> <th>DISPERLITH POX</th> <th>Set 2.5 L</th> <th>Set 10 L</th> </tr> </thead> <tbody> <tr> <td>Component A</td> <td>1,38 l -2,20 Kg</td> <td>5,52 l.- 8,80 Kg</td> </tr> <tr> <td>Component B</td> <td>1.13 l -1.17 Kg</td> <td>4,52 l. - 4,68 Kg</td> </tr> </tbody> </table> <p>Weight ratio A:B 1→:0,53 Ratio in volume A:B 1→:0.82</p> | DISPERLITH POX | Set 2.5 L | Set 10 L | Component A | 1,38 l -2,20 Kg | 5,52 l.- 8,80 Kg | Component B | 1.13 l -1.17 Kg | 4,52 l. - 4,68 Kg |
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| Component B | 1.13 l -1.17 Kg | 4,52 l. - 4,68 Kg | | | | | | | | |
| T.ª APPLICATION | Generally from 2-3° C (50% relative humidity), both for the surface to be painted and the ambient temperature (MMFT 0°C). | | | | | | | | | |
| COMPATIBILITY | Do not mix with other paints. | | | | | | | | | |
| STORAGE | 24 months in closed container, in a cool place with a temperature not lower than 10°C and not higher than 25°C. Protect from direct sunlight. | | | | | | | | | |
| PACKAGING | Sets of 2.5 l. and 12.5 l. Follow the mixing ratios indicated on the package you have purchased. We recommend mixing complete sets in order to avoid mixing ratio errors. | | | | | | | | | |
| DANGER | Product for professional use only. For a correct handling always read the safety data sheet and use the indicated PPE and measures. | | | | | | | | | |
| NOTE | For a good application of a product it is necessary to take into account the state and preparation of the base, which must be clean, consolidated and with adequate levels of humidity, for which we have a wide range of cleaners, primers, water repellents, consolidants, insulators, mortars, putties, etc... that will help you to prepare the base properly if necessary. In case of doubt, please consult our technical advisory service. | | | | | | | | | |
| RESIDUES | For the correct management of packaging and waste generated after the use of this product, contact an authorized local waste manager. Unused paint should be treated by specialists for environmentally friendly disposal and therefore should not be disposed of with household waste. European Waste Catalogue (EWC): 08 01 12 (Waste paint and varnish other than those mentioned in 08 01 11). 15 01 02 (Plastic packaging) Take only completely empty packaging for recycling. | | | | | | | | | |
| OFFICIAL R&D&I PROJECT | A novel part of the development of BioFilmStop technology and its oligodynamic effectiveness has been possible thanks to Fakolith's private projects, together with innovations developed by Fakolith in the framework of the official R&D&I Basic Research project, led by Acciona Infraestructuras, S.A., with file CEN-20091010 and acronym TECNOCAI: "Efficient and Intelligent Technologies oriented to Health and Comfort in Indoor Environments" with a global budget of 19.85 million euros, with file CEN-20091010 and acronym TECNOCAI: "Efficient and Intelligent Technologies Oriented to Health and Comfort in Indoor Environments" with a global budget of 19,859,841.00 € and specific FCS of 684.140,00 €, which has been | | | | | | | | | |

partially subsidized by the CDTI within the CENIT-E Program of the Ministry of Science and Innovation, and has also counted with the participation under the direction of Fakolith, of the Physical-Chemical and Analytical Departments of the University of Madrid UNED. Also thanks to part of the developments of Fakolith in the official R+D+i project of Technological Innovation of acronym APLICONS: "Antimicrobial paints with nanotechnological base", with file IPT-2011-1499-900000 and whose global budget has been 1.001.439,15 €, and that has been partially financed by the Ministry of Science and Innovation, within the subprogram INNPACTO, framed in the National Plan of Scientific Research, Development and Technological Innovation 2008-2011 (B.O.E of March 31).



Centro para el Desarrollo
Tecnológico Industrial

LEGAL NOTICE:

FAKOLITH CHEMICAL SYSTEMS, S.L.U. applies a quality management system, certified by TÜV Rheinland Cert GmbH, ISO 9001:2015 standard.

FAKOLITH CHEMICAL SYSTEMS, S.L.U., a company of the FAKOLITH group in Spain, is a manufacturer, importer and marketer of paints and special industrial treatments, in accordance with its corporate purpose, and the legal responsibility for the application of the products is always beyond our scope. This technical information, as well as the recommendations regarding the application and final use of the product, are always given in good faith, are based on our current knowledge and experience, when within the useful life of the product, they are correctly handled and applied, in standard situations. In practice, the possible differences in materials, substrates and actual conditions at the place of application are of such diversity that no warranty in terms of merchantability or fitness for particular purposes, nor any obligation outside any legal relationship that may exist, can be inferred from the information herein, nor from any other written recommendation or advice given, except for deficiencies in the quality of our materials arising from production faults. This information does not exempt the buyer and/or applicator and/or end user from determining whether our offer, technical recommendation or the quality and characteristics of our products meet their needs. Fakolith reserves the right to update the properties and specifications of the products in order to improve our recommendations and adapt to current regulations. A new edition of this document with a later date cancels the validity of its previous version.

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