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chemical systems

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a Fakolith Group Company

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Food contact paints and varnishes

Fakolith FoodGrade paints and varnishes are coatings widely tested and certified for direct, indirect and occasional contact with food, beverages and drinking water, according to European regulation EU 10/2011, and/or American regulation FDA 21 CFR 175.300, and with all its subsequent modifications. Our FoodGrade paints and varnishes have the obligatory Declaration of Conformity (Compliance Declaration), and are suitable and indicated for painting, coating, renovating and protecting surfaces such as food and beverage silos, tanks, pipes, fish farms, transport elements, printed food packaging, shells and barks, as

well as walls, ceilings, flooring, sandwich panel, cold stores, clean rooms, and installations and objects in general in all sectors of the food industry. In addition, the entire FoodGrade range is treated with BioFilmStop antimicrobial technology, specifically approved for food contact, and effective against bacteria and biofilm, and also coronavirus.



VARNIPACK FoodGrade (Multipurpose)

Colorless 1-component waterborne varnish, certified for direct and indirect food contact EU and FDA. For surfaces of up to medium physical-chemical stress, on wood and wood-derived surfaces, barrels and cooperage, utensils, shelves, displays, painted surfaces, on some plastics and 3D printing, etc.



Jerrycans of 1 and 10 l. - Barrels of 200 l. - 1000 l. IBC

FEATURES: Varnipack FoodGrade is a colourless, thin-layer, fast air-drying, 1-component aqueous dispersion multipurpose varnish, certified and suitable for direct and indirect contact with food according to European Regulation EU 10/2011 and American Regulation FDA 21 CFR 175.300. Food contact varnish with glossy-satin finish, formulated with modified acrylic copolymers, free of Bisphenol A (BPA free), APEO, formaldehyde, phthalates, heavy metals..

VarniPack FoodGrade is air-drying and/or forced drying with hot air or infrared lamps, and has an ideal balance of performance in its category:

- High resistance to humidity, water and grease.
- Balanced barrier and transpiration functions.
- Excellent transfer, wetting and leveling.
- Balanced flexibility, adhesion,
- Good resistance to dry and wet rubbing.
- Good resistance to blocking
- Excellent gloss finish and transparency.
- Low Voc and low odor.
- It is not dangerous goods neither for its use, nor for its transport by road, sea or air.
- Declaration of Conformity- Compliance Declaration
- Applicable by brush, roller, Airless or Air-Mix.

Product treated (BPR Art 3 and 58) with BioFilmStop FG antimicrobial technology (optional), specific FoodGrade version, highly effectiveness tested against bacteria and other pathogenic microorganisms such as coronavirus, and always according to EU 10/2011 and FDA 21 CFR 175.300 regulations. ISO 22196 and ISO 21702 effectiveness test (Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus, Salmonella enteritidis, Legionella pneumophila, Human and Feline Coronavirus). The paints and coatings of the Fakolith FoodGrade range contribute to the positive compliance with CE 852/2004, are manufactured under HACCP and Good Manufacturing Practices (GMP) according to CE 2023/2006 and/or FDA 21 CFR 174.5, improving the

hygiene, food and health safety of surfaces and environments.

FIELDS OF USE: Mainly used in direct, indirect or occasional contact with food, and in general wherever maximum safety is sought. For the protection and varnishing of parts and **surfaces** of wood and wood derivatives **up to medium physicochemical stress**, such as shelves, displays, cooperage, wooden surfaces, on painted surfaces, and some plastics, synthetics and 3D printing materials, etc. in food and auxiliary industry, health sectors, in industry, civil works and public and private buildings in general. (For surfaces with high physical-chemical stress, use our FoodGrade epoxy range such as FK-45, FK-100).

APPLICABLE: By brush, roller, Airless or Air-Mix.

PERFORMANCE: Depending on the situation, type of base and subsequent use, we recommend between 50 -100 ml/m², applied in thin layers.

Product for professional use. For a correct application follow the instructions in the technical sheets, application guides and safety data sheets. In case of doubt, consult our technical service.

NOTE: [See here](#) for our **special version for single or repeated use food packaging** in printed MDF packaging, paper and cardboard packaging, labels, wood packaging and other derivatives. **A BioBased version of Varnipack FoodGrade, Varnipack FoodGrade BioHybrid** is also available and significantly reduces the carbon footprint.

DISPAIN'T FoodGrade

Water-based enamel for direct and indirect food contact, EU and FDA certified, easy application and renovation, fast drying and good adhesion. For painting and renovating multiple surfaces up to medium stress on walls, ceilings, panels, installations, objects, wood, 3D prints, plastics, primed metals, mineral surfaces...



Cans of 2.5 and 12.5 litres

PROPERTIES: it is a 1-component aqueous dispersion satin-matt acrylic enamel, thin film and fast air drying, widely certified and suitable for direct and indirect contact with food, according to the European Regulation EU 10/2011 and American FDA 21 CFR 175.300, and its subsequent modifications. Formulated with modified acrylic copolymers, free of Bisphenol A (BPA free), APEO, formaldehyde, phthalates, heavy metals, etc. Dispaint FoodGrade has excellent finish and adhesion on multiple surfaces, with an adequate balance between physicochemical resistance and impermeability in its category. It has no tacking or blocking after curing, class 1 wet scrub resistance, low Voc, and low odor. It is not dangerous goods neither for its use nor for road, sea or air transport. It is a multipurpose aqueous food enamel, easy to apply, renew and maintain. **With Declaration of Conformity, Performance and CE Marking.**

BIOFILMSTOP SANITARY TECHNOLOGY (Article treated BPR Art.3): DISPAIN'T FoodGrade is a treated paint (BPR Art 3 and 58) with BioFilmStop Foodgrade antimicrobial Technology. With effectiveness $\geq 99,9\%$ and tested in several official R&D&I projects and external reference laboratories, under various regulations ASTM D2574-06, ISO 846, ISO 22196, ISO 15457:201, ISO 21702, etc., against bacteria and biofilm (Staphylococcus aureus MRSA, Listeria monocytogenes, Salmonella enteritidis, Salmonella enterica, Pseudomonas aureuginosa, Legionella pneumophila...) and viruses (Human Coronavirus, Feline Coronavirus). The paints and coatings of Fakolith's sanitary range contribute to comply positively with CE 852/2004, are manufactured under HACCP and Good Manufacturing Practices (GMP) according to CE 2023/2006, improving hygiene and food and sanitary safety of surfaces and environments. FAKOLITH Sanitary Registration: RGSEAA ES-39.005259/T and ROESP E-0043-E.

MAIN USE: particularly suitable for the protection and finishing of surfaces of repeated use, and up to medium physicochemical stress, in direct, indirect or occasional contact with food, such as open surfaces of walls, ceilings, skirting boards, installations and various objects. Excellent general adhesion in its category on multiple surfaces, such as surfaces with previous coatings in good condition, 3D printing parts, various plastics, primed metal alloys, wood surfaces and derivatives, mineral surfaces and dry construction gypsum panels, sandwich panels, etc. Mainly used in food and auxiliary industry, health sectors, hospitals, clinics, in industry, civil works and public and private buildings in general.

PROPERTIES: Dispaint FoodGrade is an enamel with exceptional hardness and adhesion on multiple surfaces.

Resistant to weathering, carbonation and alkalinity of the base. Good average resistance to most of the disinfectants and cleaners in use solution, according to DIN EN ISO 4628-2: 2004-01 (Higher resistance to acid solutions than to basic ones). **Tests CE marked** (Tecnalia) UNE-DIN EN ISO 1504-2:2005 after 7 days of curing applying 2 coats of 162.5 gr:

- Abrasion resistance. Weight loss= 40 mg.
- Permeability to CO₂ Class III Sd >50 m (223)
- Permeability to water vapor Class I Sd <5 m (2.07)
- Liquid water permeability $w < 0.1 \text{ Kg/m}^2\text{-h}$ 0.5 (0.01) Class III
- Tensile strength for rigid systems with traffic loads =3.55 N/mm².

APPLICATION: Applicable by brush, roller, Airless or Air-Mix, anilox rollers, industrial spraying.

SERIAL COLORS: White RAL 9003. Consult availability, price and minimum quantity for other colors of the FoodGrade chart or other RAL colors.

AVERAGE YIELD: DISPAINT FOODGRADE has an approximate average yield of 4-8 m²/l. in 2-3 coats. Depending on the desired finish, the texture and absorption of the base can vary considerably.

For a correct application follow the indications of the technical data sheets, application guides and safety data sheets. In case of doubt consult our technical service.

DISPERLITH FoodGrade Elastic

Foodgrade paint or transparent varnish, mono-component and water-based, suitable for being in direct and indirect contact with food and drinking water, certified EU 10/2011. Mainly for concrete tanks containing water, walls, ceilings and objects of the food industry.



Cans of 5 and 12.5 litres

FEATURES: Disperlith FoodGrade Elastic water-based 1-component paint or colorless varnish, certified for direct and indirect contact with food and drinking water, according to European Regulation EU 10/2011 and its subsequent amendments. Food contact paint formulated with modified acrylic copolymers, Bisphenol A free (BPA free), with good coverage, excellent balance between high impermeability, elasticity and good adhesion, low odor, fast drying, applicable from low temperatures (>3°C). It has EC marking tests that confirms an excellent physicochemical resistance in its category.

Product treated (BPR Art 3 and 58) with BioFilmStop FG antimicrobial technology, specific FoodGrade version, highly effectiveness tested against bacteria and other pathogenic microorganisms such as coronavirus, and always according to EU 10/2011 and FDA 21 CFR 175.300 regulations. ISO 22196 and ISO 21702 effectiveness test (Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus, Salmonella enteritidis, Legionella pneumophila, Coronavirus Feline). The paints and coatings of the Fakolith FoodGrade range contribute to the positive compliance with CE 852/2004, are manufactured under HACCP and Good Manufacturing Practices (GMP) according to CE 2023/2006 and/or FDA 21 CFR 174.5, improving the hygiene, food and health safety of surfaces and environments.

FIELDS OF USE: Especially suitable for the protection and painting of surfaces up to medium physical-chemical stress, in direct, indirect or occasional contact with food, water for food processing and drinking water. As a finish for open surfaces such as walls, ceilings at indoors and outdoors, on objects and other surfaces, and in immersion in concrete tanks for drinking water.

Mainly used in the food industry but also in the health sector, hospitals, clinics, industry, civil engineering, and public and private buildings in general. Certified for clean rooms.

SERIAL COLORS: Standard colours: Colorless varnish, White RAL 9003, Light Ivory RAL 1015, Oxide Red RAL 3009, Grey RAL 7004, Green RAL 6002, Blue RAL 5012, Yellow RAL 1003 and Black RAL 9017 (Check availability, price and minimum quantity for other FoodGrade Color card or other RAL colours).

APPLY with brush, roller, Airless or Air-Mix.

AVERAGE YIELD: DISPERLITH FoodGrade Elastic has an approximate yield of 3-5 m²/l. in 2 coats for painting and up to 6-19 m²/l. for varnishing. Depending on the texture and absorption of the base it can vary sensibly.

Product for professional use. For a correct application follow the instructions in the technical sheets, application guides and safety data sheets. In case of doubt, consult our technical service.

FK-100 FoodGrade

Heavy-duty food contact epoxy coating, suitable for direct and indirect contact with food, beverages and drinking water, partially bio-based, with double certification, EU 10/2011 and FDA 21 CFR 175.300. For the protection, renovation and painting of industrial surfaces such as tanks, pipes, transport elements, floors, walls, skirting boards, ceilings, structures, installations, machinery, etc.



Sets of A+B of: 2.5 and 6.5 Kg in general. Blue 2.5 and 6 Kg. Varnish 2.5 and 5 Kg.

PRODUCT SUMMARY: FK-100 FoodGrade is a 2-component heavy-duty food contact epoxy coating, 100% solids and partially bio-based, and with double certification for direct contact with food, the European EU 10/2011 and the American FDA 21 CFR 175.300. High performance and high thickness coating, low Voc, low odor bio-based, gloss finish, with CE marking tests, and tested excellent anticorrosive and physicochemical resistance in its category. Particularly suitable for the protection, renovation, and painting of surfaces in direct, occasional or indirect contact with food, beverages, water for food processing and drinking water.

FIELDS OF USE: Following the technical indications for each system, FK-100 FoodGrade can be applied inside silos, tanks and pipes, walls, ceilings, skirting boards, floors, metal structures, machinery and equipment, large aquariums and fish farms, cold and freezing rooms, food warehouses, panels, food transport, etc., always indoors. Especially in the food industry and healthcare sectors, hospitals and clinics, and also in industry, civil works and public and private buildings in general. Compatible with most mineral surfaces, concrete, sandblasted metals SA 2,5 Rz>50, metals properly primed, lacquered panels and on other paints and / or compatible primers well bonded and other surfaces resistant to cut-cross test Class 0-1 UNE-DIN EN ISO 2409:2007 and traction EN ISO 4624:2016 Rigid Systems: $\geq 1,0$ (0,7) b N/mm². (Without traffic loads) and: $\geq 2,0$ (1,5) b N/mm² (With traffic loads).

Product treated (BPR Art 3 and 58) with BioFilmStop FG antimicrobial technology, specific FoodGrade version, highly effectiveness tested against bacteria and other pathogenic microorganisms such as coronavirus, and always according to EU 10/2011 and FDA 21 CFR 175.300 regulations. ISO 22196 and ISO 21702 effectiveness test (Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus, Salmonella enteritidis, Legionella pneumophila, Coronavirus Feline). The paints and coatings of the Fakolith FoodGrade range contribute to the positive compliance with CE 852/2004, are manufactured under HACCP and Good Manufacturing Practices (GMP) according to CE 2023/2006 and/or FDA 21 CFR 174.5, improving the hygiene, food and health safety of surfaces and environments.

STANDARD COLORS: Pearl White RAL 1013, Oxide Red RAL 3009 and Grey RAL 7004, Blue RAL 5012, Green RAL 6002

and Transparent Amber Varnish. Please check availability, price and minimum required quantity for other colors from our FoodGrade chart or other RAL colors, except white which is not available in this product.

APPLICABLE with brush, roller, Airless or AirMix preferably heated.

With Declaration of Compliance, Performance and CE marking.

PAINT AVERAGE YIELD: according to recommended coat thickness, depending on use of FK-100 FoodGrade

- Dry thickness = Wet thickness: 200 μm - consumption is 265 gr/m^2 - a yield of 3,77 m^2/kg .
- Dry thickness = Wet thickness: 300 μm - consumption is 395 gr/m^2 - a yield of 2,53 m^2/kg .
- Dry thickness = Wet thickness: 350 μm - consumption is 463 gr/m^2 - a yield of 2,16 m^2/kg .
- Dry thickness = Wet thickness: 400 μm - consumption is 530 gr/m^2 - a yield of 1,89 m^2/kg .
- Dry thickness = Wet thickness: 500 μm - consumption is 660 gr/m^2 - a yield of 1,51 m^2/kg .
- Dry thickness = Wet thickness: 700 μm - consumption is 925 gr/m^2 - a yield of 1,08 m^2/kg .

VARNISH AVERAGE YIELD:

- Dry thickness = Wet thickness: 50 μm - consumption is 51,5 gr/m^2 - a yield of 19,4 m^2/kg .
- Dry thickness = Wet thickness: 75 μm - consumption is 77,3 gr/m^2 - a yield of 12,9 m^2/kg .
- Dry thickness = Wet thickness: 100 μm - consumption is 103 gr/m^2 - a yield of 9,7 m^2/kg .

For a correct application follow the indications in the technical sheets, application guides and safety data sheets. In case of doubt consult our technical service.

FK-45 FoodGrade

High solid foodgrade epoxy paint or varnish, suitable for direct and indirect contact with food and beverages, certified EU 10/2011. For the painting and renewal of deposits, tanks, pipes, transport elements, floors, walls, baseboards, ceilings, structures, facilities, machinery...



A+B kits of 7.5 Kg

PRODUCT SUMMARY: FK-45 FoodGrade is a 2-component heavy-duty epoxy food contact coating, paint or varnish, with very high solids content, certified for direct and indirect contact with food, according to the European regulation EU 10/2011. High performance paint, low Voc, low odor, gloss finish, with CE marking tests and excellent physicochemical resistance in its category. Especially indicated for the protection and painting of surfaces in direct and indirect contact with food, beverages, water for food processing and drinking water.

Product treated (BPR Art 3 and 58) with BioFilmStop FG antimicrobial technology, specific FoodGrade version, highly effectiveness tested against bacteria and other pathogenic microorganisms such as coronavirus, and always according to EU 10/2011 and FDA 21 CFR 175.300 regulations. ISO 22196 and ISO 21702 effectiveness test (Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus, Salmonella enteritidis, Legionella pneumophila, Coronavirus Feline). The paints and coatings of the Fakolith FoodGrade range contribute to the positive compliance with CE 852/2004, are manufactured under HACCP and Good Manufacturing Practices (GMP) according to CE 2023/2006 and/or FDA 21 CFR 174.5, improving the hygiene, food and health safety of surfaces and environments.

FIELDS OF USE: Following the technical indications for each system, FK-45 FoodGrade is recommended for direct, indirect and occasional contact with food on open surfaces of walls, ceilings, skirting boards, floors, metal structures, machinery and equipment, cold and freezing rooms, food warehouses, panels, food transport, objects, etc., always indoors. In the food industry, health sectors, hospitals and clinics, industry, civil works, and public and private buildings in general. **Compatible with most consistent surfaces:** Tensile strength EN ISO 4624:2016 Rigid Systems: $\geq 1,0$ (0,7) b N/mm². (Without traffic loads) and: $\geq 2,0$ (1,5) b N/mm² (With traffic loads). Surfaces with the adequate roughness $Rz > 50$, both in mineral bases, as well as in duly sandblasted (SA 2,5) or primed metals. Lacquered panels and previous compatible paints and/or primers, well bonded and resistant to the ISO 2409:2007-Class 0-1 cut-cross test.

For the painting and interior renovation of food, beverage and drinking water tanks and pipes, use from now on the most modern, resistant and certified version "FK-100 FoodGrade", the only one that simultaneously complies with EU and FDA regulations.

STANDARD COLORS: Transparent varnish and White RAL 9003. Consult availability, price and minimum quantity of colors [FoodGrade chart](#) or other RAL colors.

APPLICABLE: with brush, roller, Airless or AirMix preferably heated.

With Declaration of Compliance, Performance and CE marking.

AVERAGE YIELD PAINT: according to recommended coat thickness, depending on use of FK-45 FoodGrade

- Dry thickness 200 μm = wet 302 gr/m^2 (222 ml/m^2) - yield 3,31 m^2/kg (4,5 m^2/L).
- Dry thickness 300 μm = wet 453 gr/m^2 (333 ml/m^2)- yield of 2,21 m^2/kg (3,00 m^2/L).
- Dry thickness 350 μm = wet 528 gr/m^2 (389 ml/m^2)- yield of 1,90 m^2/kg (2,57 m^2/L).
- Dry thickness 400 μm = wet 604 gr/m^2 (444 ml/m^2)- yield of 1,66 m^2/kg (2,25 m^2/L).

AVERAGE YIELD TRANSPARENT VARNISH:

- Dry thickness 50 μm = wet 58 gr/m^2 (53 ml/m^2)- yield of 17,27 m^2/kg (18,87 m^2/L).
- Dry thickness 75 μm = wet 87 gr/m^2 (79 ml/m^2)- yield of 11,49 m^2/kg (12,66 m^2/L).
- Dry thickness 100 μm = wet 116 gr/m^2 (105 ml/m^2)- yield of 8,63 m^2/kg (9,52 m^2/L).

For a correct application follow the indications in the technical sheets, application guides and safety data sheets. In case of doubt consult our technical service.

FK-45 FoodGrade Hygienic

Foodgrade paint epoxy-novolac suitable for direct and indirect contact with food and beverages, certified EU 10/2011. For the painting and renewal of tanks (> 10,000 l.), connecting pipes, transport elements, floors, walls, baseboards, ceilings, structures, facilities, machinery...



A+B kits of 7.5 Kg

PRODUCT SUMMARY: is a epoxy-phenol-novolac 2-component, heavy-duty food contact coating, ultra-high solids, certified for direct and indirect contact with food, EU Regulation 10/2011. Low Voc, low odor, gloss finish, with CE marking tests and excellent physicochemical resistance in its category, higher than conventional epoxy.

FIELDS OF USE: Following the technical indications for each system, highly recommended **in indirect contact** on open and demanding surfaces of walls, ceilings, skirting boards, floors, metal structures, machinery and equipment, cold and freezing chambers, food stores, panels, food transport, objects, etc., only indoors. In food industry, health sectors, hospitals and clinics, industry, civil works, and public and private buildings in general. **FK-45 FoodGrade Hygienic can be applied for direct contact with food and beverages, inside silos and tanks (>10,000 l.) and their connecting pipes (exception EU 1895/2005), especially if a white color is desired. For other colors and in general for tanks and pipelines, we recommend using the latest, certified "FK-100 FoodGrade" version, which complies with EU and FDA regulations at the same time.** Compatible with most mineral surfaces, concrete, sandblasted metals SA 2,5 Rz>50, metals properly primed, lacquered panels and on other paints and / or compatible primers well bonded and other surfaces resistant to cut-cross test Class 0-1 UNE-DIN EN ISO 2409:2007 and traction EN ISO 4624:2016 Rigid Systems: $\geq 1,0$ (0,7) b N/mm². (Without traffic loads) and: $\geq 2,0$ (1,5) b N/mm² (With traffic loads).

Product treated (BPR Art 3 and 58) with BioFilmStop FG antimicrobial technology, specific FoodGrade version, highly effectiveness tested against bacteria and other pathogenic microorganisms such as coronavirus, and always according to EU 10/2011 and FDA 21 CFR 175.300 regulations. ISO 22196 and ISO 21702 effectiveness test (Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus, Salmonella enteritidis, Legionella pneumophila, Coronavirus Human and Feline). The paints and coatings of the Fakolith FoodGrade range contribute to the positive compliance with CE 852/2004, are manufactured under HACCP and Good Manufacturing Practices (GMP) according to CE 2023/2006 and/or FDA 21 CFR 174.5, improving the hygiene, food and health safety of surfaces and environments.

STANDARD COLORS: White RAL 9003 (Please check availability, price and minimum required quantity for other colors from our FoodGrade chart or other RAL colors).

APPLICABLE with brush, roller, Airless or AirMix preferably heated.

With Declaration of Compliance, Performance and CE marking.

AVERAGE YIELD: according to recommended coat thickness, depending on use of FK-45 FoodGrade Hygienic

- Dry thickness 200 μm = wet 285 gr/m^2 (211 ml/m^2) - yield 3,51 m^2/kg (4,74 m^2/L).
- Dry thickness 300 μm = wet 427 gr/m^2 (316 ml/m^2)- yield of 2,34 m^2/kg (3,16 m^2/L).
- Dry thickness 350 μm = wet 497 gr/m^2 (368 ml/m^2)- yield of 2,01 m^2/kg (2,70 m^2/L).
- Dry thickness 400 μm = wet 568 gr/m^2 (421 ml/m^2)- yield of 1,76 m^2/kg (2,38 m^2/L).
- Dry thickness 500 μm = wet 710 gr/m^2 (526 ml/m^2)- yield of 1,41 m^2/kg (1,90 m^2/L).
- Dry thickness 700 μm = wet 995 gr/m^2 (737 ml/m^2)- yield of 1,00 m^2/kg (1,36 m^2/L).

FAKOPUR FoodGrade

Two component polyurethane foodgrade enamel, certified EU 10/2011, suitable for direct and indirect contact with food and beverages. On areas where epoxies are limited or require PU protection, such as outdoors, in contact with some acids, food industry, agricultural sector, fish farms and industry.



PRODUCT SUMMARY: FAKOPUR FOODGRADE is a 2-component, solvent-based, high solids, aliphatic isocyanate acrylic polyurethane food contact paint, certified for direct, indirect and occasional contact with food, in accordance with EU Regulation 10/2011. High performance paint, resistant to outdoors, satin finish, with CE marking tests and excellent physicochemical resistance in its category. Particularly suitable for the protection and painting of surfaces in direct and indirect contact with food, beverages, water for food processing and drinking water.

Product treated (BPR Art 3 and 58) with BioFilmStop FG antimicrobial technology, specific version for food contact, with high effectiveness tested against bacteria and other pathogenic microorganisms such as coronavirus, and always in accordance with EU 10/2011 and FDA 21 CFR 175.300 regulations. Effectiveness test ISO 22196 and ISO 21702 (Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus, Salmonella enteritidis, Legionella pneumophila, Feline Coronavirus). The paints and coatings of Fakolith's foodgrade contribute to positively comply with EC regulation 852/2004, are manufactured under HACCP and Good Manufacturing Practices (GMP) according to EC 2023/2006 and/or FDA 21 CFR 174.5, improving hygiene and food and sanitary safety of surfaces and environments.

FIELDS OF USE: Following the technical indications for each system, it is mainly applied in outdoor situations of direct, indirect and occasional contact, in silos and tanks, ponds, culture pools, hoppers, troughs, floors, walls, equipment and tools, food warehouses, panels, food transport, objects, aquaculture... or indoors where a polyurethane is more convenient than an epoxy due to its properties. Especially for use in the food industry and primary sectors of agriculture, livestock and fisheries. Its excellent insulating qualities and vapor barrier effect, make it work as an excellent waterproofing on concrete, as a protective finish for metals in combination with anticorrosive primers compatible. FAKOPUR FoodGrade has in general good adhesion on various consistent bases and suitable roughness, concrete, mineral bases, properly primed metals, wood, compatible primers... Compatible with most consistent surfaces: Tensile strength EN ISO 4624:2016 Rigid Systems: ≥ 1.0 (0.7) b N/mm². (No traffic loads) and: $\geq 2,0$ (1,5) b N/mm² (With traffic loads), Surfaces with adequate roughness $R_z > 50$, both on mineral bases, as well as properly sandblasted (SA 2,5) or primed metals, Lacquered panels and compatible previous paints and/or primers, well adhered and resistant to the ISO 2409:2007- Class 0-1 grating shear test.

SERIAL COLORS: White RAL 9003 and Grey RAL 7004, (Consult availability, price and minimum quantity for other FoodGrade colors or other RAL colors).

APPLICABLE with brush, roller, Airless or Air-Mix preferably heated.

AVERAGE YIELD: according to recommended film thickness depending on the use of FAKOPUR FoodGrade.

-For a dry film thickness of 50 μm - 100 ml/m² are consumed - yielding 10 m²/l.

-For a thickness of 100 μm dry - 200 ml/m² are consumed - yielding 5 m²/l.

-For a dry thickness of 150 μm - 300 ml/m² are consumed - yielding 3.3 m²/l.

For a correct application follow the indications in the technical data sheets, application guides and safety data sheets. In case of doubt consult our technical service.

IMPORTANT NOTE: According to the latest update of [Regulation \(CE\) n.o 1907/2006](#), specific mandatory training is required for a safe use and handling of this product. For further information, consult TDS on its 3rd page.

FK-450 FoodGrade

Pintura epoxi alimentaria en base acuosa y de altos sólidos, certificada según UE 10/2011. para contacto directo e indirecto con alimentos, bebidas y agua potable. Para la renovación y pintado de depósitos agua y de alimentos sólidos, además de suelos, paredes, zócalos, techos, estructuras, instalaciones, etc.



A+B kits of 5 Kg

DESCRIPTION: FAKOLITH FK-450 FoodGrade is the first high performance waterborne epoxy food paint, which is certified as suitable for direct and indirect contact with food and drinking water. It is high solids, low voc, low odor and has excellent CE marking tests. FK-450 FoodGrade, which generates a film with high resistance to abrasion, impermeable to liquid water but breathable to water vapor, easy to clean and disinfect with hot water. Its excellent insulating qualities and vapor barrier effect, make it work as an excellent waterproofing and long-term anticorrosive treatment for metals in combination with the correct anticorrosive primer system (except immersion where FK-45 or FK-100 FoodGrade is recommended). Compatible with most mineral surfaces, properly primed metals, lacquered sandwich panels, and previous compatible paints and/or primers, well adhered and resistant to Class 0-1 grid cut test, UNE-DIN EN ISO 2409:2007. Resistant to most disinfectant cleaners according to Test DIN EN ISO 4628-2: 2004-01. (For greater safety, please consult our Technical Dept. prior to use). Coverage Class 1 (300 µm dry film) and wet rub Class 1, DIN EN 13300.

CERTIFIED FOOD PAINT SUITABLE FOR DIRECT CONTACT: FK-450 FoodGrade epoxy food paint duly complies with all current European regulations for materials in contact with food, EC Regulation 852/2004, Regulation 1935/2004/EC, EC Regulation 1895/2005, HACCP production and EC Regulation 2023/2006 GMP, as well as RD 847/2011 and Commission Regulation (EU) No. 10/2011 and its subsequent amendments including EU 2018/213 (BPA compliant), on plastic materials and articles intended to come into contact with food such as. To this end, FK-450 FoodGrade is being tested with simulants A, B, C, D2 (OM2-40°C) and C (OM4-100°C), as demonstrated by the tests carried out by Fakolith in independent certified entities, such as Tecnia and the National Center for Food Technology (CNTA) among others, that it complies in all cases tested with the overall and specific migration limits imposed by these regulations for the above-mentioned simulants, which are equivalent to all simulants and therefore suitable for direct contact with all foods and beverages (exception: vinegar damages the resin): vinegar damages the epoxy resin. Not suitable for food intended for infants or young children according to regulation (EU) No 609/2013). FK-450 FoodGrade will have Food Conformity Declaration - Health Registration FAKOLITH RGSEAA ES-39.005259/T. Available in the main industrial colors of the food industry and sanitary sector.

AQUA-FOODGRADE TECHNOLOGY: FAKOLITH FK-450 FoodGrade is the first 2-component, high solids epoxy food paint that does not contain or require additional solvents or alcohols for its application. The A+B mixture

incorporates water emulsion as a solvent. This is a milestone that will facilitate room temperature or forced drying, as water is much easier and safer to evaporate. Especially in confined spaces, having no flammable or volatile hazardous materials during application and curing is a great novelty and advantage.

BIOFILMSTOP SANITARY TECHNOLOGY (Treated article BPR Art.3): FK-450 Foodgrade is a food grade paint that combines FoodGrade Technology with BioFilmStop sanitary technology for inhibition and high resistance to biofilm and bacteria, ISO 22196:2011 (Escherichia coli, Listeria monocytogenes, Bacillus subtilis, Pseudomonas aureginosa, Staphylococcus aureus, Salmonella enteritidis, Legionella pneumophila, etc.) ...) also significantly improving HACCP, food safety and asepsis of the user industry. It also includes Fakolith's innovative FOODTECH film protection technology based on food preservatives.

MAIN USE: FK-450 FoodGrade food epoxy is specially formulated for the protection and finishing of mineral deposits of drinking water or water from food and agricultural processes, solid food deposits, as well as skirting boards, floors, walls, ceilings, objects, machinery, installations, structures, etc. located indoors. In general use in the food industry, health, pharmaceutical and cosmetic sector, industry in general, construction and civil works.

METHOD OF APPLICATION: After adequate preparation of the base and having checked the suitability of the environment, FK-450 FoodGrade can be applied by brush, roller or for optimal finishes and applications with AirMix or Airless spraying equipment. Slowly pour component B over component A, and stir at low revolutions with an electric agitator for at least 2 minutes until its correct homogenization. Let it rest for at least 1 minute before starting to apply. Always mix complete sets of A+B to avoid errors in the mixing ratio. Plan the application well taking into account its possible short pot-life. Can be applied in systems with fiber mesh in tanks and with anti-skid quartz sand in pavements. If necessary adjust the viscosity of the paint by adding 5-10% of potable water.

SERIAL COLORS: Off-white RAL 9010 and Grey RAL 7004. Consult availability, price and minimum quantity for other colors.

ATTENTION TO APPLICATION AND CURE CONDITIONS: Drying times and waiting time for the second coat depend on the actual thickness of the layer, temperature, relative humidity and ventilation. The ambient and base temperature, as well as the temperature of the paint should never be lower than +10°C nor higher than 35°C, and the relative humidity should not be higher than 70-75%. The surface temperature of the base to be painted should always be at least 3°C above the dew point to avoid condensation. It is estimated that the ideal application temperature is around 20°C and 60% relative humidity. In case the environmental conditions are not adequate for its application and curing, these should be adapted with air extraction and ventilation, either at room temperature, with cold or heat, with dehumidifiers, etc; until the environmental conditions are adequate and stable during the application and curing, and always avoiding the generation of condensation humidity, since this would prevent the correct curing of the paint, a fact especially to be watched in tanks and confined spaces. The epoxy paint should not receive contact with water or surface condensation during the first 72 hours of curing, or the paint may not cure correctly, appearing "Amine Blush" wash spots.

OTHER GENERAL APPLICATIONS: The paint offers good general performance, at least after 72 hours of curing, although we recommend not to subject the paint film to severe chemical-physical aggressions until it has cured for at least 1 week (walls, floors, ceilings...indirect contact).

For further details see technical data sheet and/or application guides, and safety data sheet.

AVERAGE PAINT YIELD: according to the recommended film thickness depending on the use of FK-450 FoodGrade

- For a dry film thickness of 200 µm - 428 gr/m² are consumed - yielding 2.34 m²/Kg (3 m²/L).
- For a dry film thickness of 300 µm - 640 gr/m² are consumed - yielding 1.56 m²/kg (2 m²/L).
- For a dry film thickness of 350 µm - 748 g/m² are consumed - yielding 1.34 m²/kg (1.72 m²/L.)
- For a dry film thickness of 400 µm - 854 g/m² are consumed - yielding 1.17 m²/kg (1.50 m²/L.)
- For a dry film thickness of 500 µm - 1.068 g/m² are consumed - yielding 0.94 m²/kg (1.20 m²/L.)
- For a dry flim thickness of 700 µm - 1.494 kg/m² is consumed - yielding 0.67 m²/kg (0.86 m²/L.)

FK-45 OEM Solvent FG

Foodgrade solvent, based on hydrophilic alcohol, for the Fakolith two-component foodgrade epoxy paints. It is added on the mixture to adjust viscosity and lengthen the pot-life.



Cans of 1, 5 and 10 L.

DESCRIPTION AND RECOMMENDED USE: FK-45 OEM Solvent FG is a foodgrade, hydrophilic alcohol based solvent for use with the two-component epoxy FoodGrade paints in the FK-45 range. If necessary you can add up to 5-10% of weight to the two-component FoodGrade paint, after mixing A and B together, in order to reduce viscosity and obtain a more fluid paint with improved levelling and penetration qualities, or for application using Airless-Airmix spray guns. It is suitable on floors and cold environments. Also for cleaning the utensils used to apply the paint.

HOW TO APPLY WITH FK-45: Add no more than 10%. Consult FK-45 specifications sheet.

AVERAGE CONSUMPTION: Variable depending on use.

SOLPUR Solvent FG

Foodgrade solvent based on butyl acetate, for the food paint FAKOPUR FoodGrade.



DESCRIPTION AND MAIN USE: Foodgrade solvent, based on butyl acetate, for food paint FAKOPUR FoodGrade that facilitates its applicability and improves its fluidity, penetration and leveling. Also for utensils and work tools cleaning.

HOW TO APPLY: First mix both components of FAKOPUR FoodGrade paint, and once the mixture is homogenized, add between 10-15% SOLPUR Solvent FG. Consult technical data sheet of FAKOPUR FoodGrade painting.

AVERAGE CONSUMPTION: Variable depending on use.