

HYDROFEST

**Water-resistant microcement,
for indoor use**



DESCRIPTION

HydroFest is a microcement system that provides water resistance and durability on interior surfaces. Thanks to its unique composition, **HydroFest** is ideal for application in areas exposed to water and moisture, such as bathrooms, showers and other wet areas. This system is the perfect solution for those looking for aesthetically pleasing, durable and easy to maintain surfaces.

APPLICATION AND USES	ADVANTAGES
<ul style="list-style-type: none"> Bathrooms, showers - as a water-resistant finish for walls and floors Kitchens - as a water-resistant material for walls, kitchen aprons, worktops and floors. Furniture, worktops - exceptional resistance and aesthetics 	<ul style="list-style-type: none"> Water resistance Very high adhesion to many substrates UV resistant High abrasion resistance Available in a wide range of colours System thickness: 1 to 2 mm Easy to maintain on a daily basis Unlimited colour palette

HYDROFEST

Basic system for indoor use:

- FEST Grunt** - primer
- HydroFest** - microcement
- Sealing: **PU FEST 2K / PU FEST Turbo**, a preparation for protecting the finished surface.

APPLICATION CONDITIONS

- Air and substrate temperature: +15° C ÷ +25° C
- Relative air humidity: up to 60%
- Substrate humidity: up to 3%

SURFACE PREPARATION - FLOOR

The substrate must be stable and load-bearing. In the case of cement screeds, the substrate concrete grade must be at least C16/20 (B20) with a minimum pull-off strength of 1 N/mm² tested by the pull-off method. The moisture content of the substrate must not exceed 3%.

In the case of anhydrite screeds, the residual moisture must not exceed 0.5% CM for screeds without underfloor heating and 0.3% CM for screeds with underfloor heating.

In wet areas, waterproofing tapes should be used at wall joints, wall-to-floor joints and around the drain.

TECHNICAL DATA

- Application temperature: 15°C-25°C
- Thickness: from 1,5 to 2 mm
- Adhesiveness: >1,5 N/mm², test UNE-UN 13892-8
- Density: 1,75 kg/dm³
- Shelf life: 6 months in closed, original packaging



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The tapes should be pasted and covered with **HydroFest compound**.

The underfloor heating must be commissioned and tested to the highest temperatures used, up to 72 hours before the application of the **Hydrofest** system, the underfloor heating must be switched off. In the case of weak substrates, they must be reinforced. The use of **FESTFLOOR Base** product together with a fibreglass mesh is recommended to protect the cement screed against the transmission of cracks. Cement laitance, other coatings and any contamination from e.g. gypsum, oil, asphalt, etc. should be removed by sanding or blasting and vacuuming. If the substrate is uneven or not homogeneous, it should be sanded down or levelled with self-spreading screeds or epoxy screed.

Replenish defects with epoxy mortar or repair mortars. Prime the concrete substrate with **FESTPrimer** (1 or 2 coats, as required) and allow it to dry for approx. 2-4 hours.

SURFACE PREPARATION - WALL

The surface should be smoothed, vacuumed of all dust and dirt. In the case of ceramic and porcelain stoneware tiles, the substrate should be cleaned of any dirt, stains by grinding with a diamond disc (in order to so-called mattify the glazed layer / grind the glaze). Any defects and joints must be filled in. The moisture content of the substrate must not exceed 3%.

In wet areas, waterproofing tapes should be used at the wall joints, wall-to-floor joints and around the drain. The tapes should be pasted and covered with HydroFest compound.

Apply **FESTPrimer** (1 or 2 coats, as required) to the thus prepared surface with a roller and allow it to dry for approx. 2-4 hours. In the case of substrates other than concrete, such as OSB boards or tiles, apply **FEST Kontakt** together with glass fibre mesh to reinforce the substrate. Spread evenly with a trowel.

Allow 4-6 hours between application of successive coats.

MIXTURE PREPARATION

The **HydroFest** product is supplied in ready-to-use packaging. If required, the product can be diluted by adding up to 1-3% water. After opening, the product should be stirred with a slow-speed drill. Shades may vary slightly between production batches, so microcement from different packs should be poured into one larger pack and mixed to make the shades uniform. Ensure that the room is well lit before starting work. Avoid draughts. Other work on site that generates dust and other debris that may move should be discontinued. Observe the recommended application temperature.

APPLICATION

Prepare enough compound for application over the entire surface. The compound should be spread over the entire surface using trowels and other metal tools to a thickness of no more than 1 mm. The application should be done with quick, vigorous movements in different directions depending on the desired effect. Apply successive batches of material using the wet-on-wet method, moving from the windows towards the exit.

PACKAGING

The product is available in packs: 5 kg, 10 kg, 15 kg, 20 kg.

CLEANING OF TOOLS

Cleaning of tools should be carried out with water and, if the material dries on the tool, it should be removed with sandpaper.

STORAGE

The products comprising the **HydroFest** system should be stored for 6 months in their original sealed packaging and in a dry place at temperatures between 10°C and 25°C, away from sources of heat. Protect from frost and direct sunlight.



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Do not take any breaks when applying the material. After approximately 4 hours, when the material has completely set and is dry, sand the floor with a single-disc sander (the so-called polisher) with abrasive paper of 60-120 gradation (depending on the desired effect). Hard-to-reach areas (corners, along walls, etc.) should be sanded with hand-held eccentric sanders. The whole area should be vacuumed. Then proceed with the application of another layer just like the first. During the work, it is recommended to use shoe protection to avoid soiling the floor.

After the last layer has dried, sand the floor with a single-disc sander (known as a polisher) using 80 grit or higher abrasive paper (depending on the desired effect). After the final coat, leave the floor for 4-6 hours to dry completely. After this time you can proceed with impregnation.

SEALING

The surface must be perfectly cured, load-bearing, dry, clean and free of dust, waxes and oils.

- **PU FEST 2K:** Shake the container of **PU FEST 2K** polyurethane sealer well. Add the hardener as indicated on the container. Mix component A with component B at a ratio of 5:1 (5 parts by weight of component A; 1 part by weight of component B). Then add 10% water in proportion to the total volume of components A and B (e.g. 5 kg of component A + 1 kg of component B + 0.6 kg of water) and mix thoroughly. Leave the container open for approximately 10 minutes, then stir again. Apply with a quality roller with 8 mm bristles. The second coat of **PU FEST 2K** paint can be applied after 4 hours without sanding or after 24 hours after sanding the surface with sandpaper with grain 220. Do not apply **PU FEST 2K** paint during the hottest hours of the day, when weather conditions are not favourable or on damp substrates. In addition, **FESTPrimer** or **3K PLUS** sealer additive can be used in areas exposed to heavy foot traffic, water and dirt. These products are not mandatory, the **PU FEST 2K** sealer alone provides high resistance. Additional products are used to extend the life of the sealer.
- **PU FEST TURBO:** Shake the container of **PU FEST TURBO** polyurethane sealer well. Add the hardener as marked on the container. Pour the hardener at a ratio of 2:1 (2 parts by weight of component A : 1 part by weight of component B) into the container with the sealer and mix thoroughly. Leave the container open for approx. 10 minutes, then stir again. Apply with a high quality roller with a bristle length of min. 6mm. It is possible to apply a second coat of **PU FEST TURBO** sealer 24 hours after application and after sanding the surface with 220-grit sandpaper. Do not apply **PU FEST TURBO** sealer during the hottest hours of the day, when weather conditions are not favourable or on damp substrates. Before use, read the technical data sheet of the sealer.
 - The surface can be used after 12 hours.
 - Fully cured after 7 days.
 - Full water resistance after 7 days.
 - High humidity and low temperature as well as poor ventilation can extend the time given.

DAILY SURFACE MAINTENANCE

HydroFest surfaces are decorative systems and therefore special attention must be paid to its use and care. Use water for daily cleaning. We recommend placing felt pads under furniture, chairs, tables, etc. in order to evenly load the objects and reduce denting. Spillages and other contaminants should be removed as soon as they become dirty, especially during the first period of use of the floor, more difficult dirt should be removed with **FESTCleaner** or **POWER-FEST**. Do not use products with a low PH and those that may cause discolouration. Before using a new cleaning product, it is recommended to test it in an invisible area. For more information, please refer to the Festfloor microcement decorative coatings instructions.



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SAFETY AND HEALTH

The product is intended for professionals. Before starting work, read the technical sheets of the components included in the system, available at www.festfloor.pl. Avoid contact with skin, mucous membranes, eyes, etc. In case of accidental contact, wash with soap and water and seek medical advice. Take measures to prevent dusting or splashing of mortar. Keep out of the reach of children. The use of masks and gloves is recommended. Ensure good ventilation in enclosed areas and avoid inhalation of dust.

ADDITIONAL INFORMATION – CONSUME

L.P.	LAYER	MATERIAL	CONSUME
1	Existing concrete substrate	-	-
2	First layer of primer [second layer optional]	FEST Grunt	Approx 0,1-0,3 kg/m ²
3a	Base layer [optional]	FESTFLOOR Base	Approx 1-1,2 kg/m ²
4	Fiberglass mesh [optional]	Mesh	-
3b	Base layer [optional]	FESTFLOOR Base	Approx 0,8-1,0 kg/m ²
5a	First layer of HYDROFEST microcement	HYDROFEST	Approx 0,5-0,7 kg/m ²
5b	Second layer of HYDROFEST microcement	HYDROFEST	Approx 0,5-0,7 kg/m ²
6	Sealing – sealer	PU FEST 2K, PU FEST Turbo	Approx 0,12 kg/m ²
7	Sealing – sealer additive [optional]	3K Plus	Approx 0,01 kg/m ²

FLOOR CROSS SECTION LAYERED SCHEME

