

FESTFLOOR TITAN

**Decorative, colored microcement
or indoor use**



DESCRIPTION

FESTFLOOR TITAN is an epoxy system for creating seamless surfaces on existing substrates such as cement screed, anhydrite screed, ceramic tiles, OSB, etc. Thanks to its formula, consisting of two components - a colored compound and a hardener - **FESTFLOOR TITAN** is an ideal solution for areas exposed to intensive use.

APPLICATION	PROPERTIES
<ul style="list-style-type: none"> • floors in houses and apartments; • floors in offices, catering buildings, warehouses, public areas; • finishing of stairs; • bathroom floors; • walls; • cladding of kitchen countertops and other furniture; • cladding of doors and columns; 	<ul style="list-style-type: none"> • high hardness • very high adhesion • for many types of substrates • system thickness - from 1.5 to 2 mm • high abrasion resistance • high thermal conductivity • resistance to water • ease of daily maintenance • unlimited color palette • versatile use

FESTFLOOR TITAN

Basic system:

- **FEST Grunt** - priming
- Two-component epoxy decorative compound: **FESTFLOOR TITAN** and **TITAN HARDENER**
- Waterproofing of choice:
 - PU FEST 2K**, water-based, two-component polyurethane varnish,
 - PU FEST TURBO**, a two-component, solvent-based polyurethane varnish,
 used to protect the finished surface.

PACKAGING

The product comes in sets:

- Kit 5,8 kg – 5 kg **FESTFLOOR TITAN** and 0,8 kg **TITAN HARDENER**
- Kit 11,6 kg – 10 kg **FESTFLOOR TITAN** and 1,6 kg **TITAN HARDENER**

TECHNICAL DATA

- Temperatura aplikacji: 15°C-25°C
- Application temperature: 15°C-25°C
- Application temperature: up to 50°C
- Substrate humidity: <3%
- Drying time: Recommended sanding no earlier than after 5 hours and no later than after 3 days.
- Full curing after 7-14 days.
- Open time: after mixing the ingredients 45 minutes
- Consumption: 0,4-0,8 kg/m²
- System thickness: from 1.5 to 2 mm
- Adhesion to substrate: above 2 MPa
- Compressive strength: over 35 MPa



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FLOOR SURFACE PREPARATION

The substrate must be stable and load-bearing. For cement screeds, the concrete grade of the substrate minimum C16/20 (B20) with a minimum pull-off strength tested by the pull - off method of 1 N/mm². The moisture content of the substrate must not exceed 3%. For anhydrite screeds, 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 drains. The tapes should be pasted and covered with FESTFLOOR TITAN compound.

Before starting the work, the floor heating must be started and tested to the highest temperatures used, a maximum of 72 hours before the application of **FESTFLOOR TITAN** system, the floor heating must be turned off. In case of weak substrates, they should be reinforced. The use of **TITAN BASE** product together with a fiberglass mesh is recommended to protect the cement screed from the transmission of cracks. Cement mil, other coatings and any contaminants from, for example, gypsum, oil, asphalt, etc. should be removed by sanding or blasting and vacuuming. If the substrate is uneven or non-homogeneous, it should be sanded down or leveled with self-spreading screeds or epoxy screed.

Replenish defects with epoxy mortar or repair mortars. Prime the concrete substrate with **FEST GRUNT** (1 or 2 coats, as needed) and wait about 2-4 hours for it to dry.

WALL SURFACE PREPARATION

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 all dirt, stains by grinding with a diamond disc (in order to so-called tarnish the glazed layer / grind the glaze). The defects and joints should be replenished.

The moisture content of the substrate must not exceed 3%.

In wet areas, waterproofing tapes should be used at wall joints, wall-to-floor joints and around drains. The tapes should be pasted and covered with FESTFLOOR TITAN compound.

Apply a coat of **FEST Grunt** (1 or 2 coats, as needed) with a roller to the so-prepared surface and wait about 2-4 hours for it to dry.

INGREDIENT PREPARATION

The epoxy decorative layer comes in two components: a finishing, colored compound and a hardener, which when combined produce an easy-to-apply flooring compound. The suggested dosage ratio of the components is 100 : 16 (one hundred parts by weight of component A - tinted mass and 16 parts by weight of component B - hardener). To correct the consistency, 1 to 4% water can be added to the weight of both components.

In order to accurately measure the components, all components should be weighed on precision electronic scales. Application temperature 15°C-25°C. Application at higher temperatures will significantly reduce the setting time. Application at lower temperatures may lead to insufficient setting of the material.

Ensure that the room is well lit before starting work. Avoid drafts. Other site work that generates dust and other debris that can move should be discontinued.

The hardener should be stored before and during application in a cool, shaded place.

Pour the hardener (component B) into the colored compound (component A) and mix with a basket mixer at slow speed. The whole mixture should be stirred until a homogeneous mass is obtained. After mixing, you can proceed to apply the microcement on the previously prepared substrate.



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APPLICATION

Prepare enough mass for application over the entire surface. The mass 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 carried out with quick, vigorous movements in different directions, depending on the desired effect. Apply successive batches of the same layer material using the wet-on-wet method, moving from the windows towards the exit. Do not use working breaks when applying the material. After about 5 hours, when the material has completely set and is dry, sand the floor with a single-disc grinder (so-called polisher) with a diamond pad of gradation 50 (depending on the desired effect). Hard-to-reach places (corners, along walls, etc.) should be sanded with eccentric hand sanders. The whole area should be vacuumed. Then proceed to the application of the next layer, just like the first. During the work, it is recommended to use plastic shoe protectors to avoid staining the floor. After the last layer dries, it should be sanded with a single-disc grinder (the so-called polishing machine) with a diamond pad with a gradation of 50, then finish with an abrasive mesh with a gradation of 80-120 (depending on the desired effect). After the final coat, leave the floor for 5 hours until it is completely dry. After this time you can proceed to impregnation.

IMPREGNATION

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

PU FEST 2K varnish/sealer:

Shake the container of **PU FEST 2K** polyurethane varnish well. Add the hardener according to the marking on the package. 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 about 10 minutes, then stir again. Apply with a high-quality roller with 8mm bristle length. The second coat of **PU FEST 2K** varnish can be applied after 4 hours without sanding, or after 24 hours after sanding the surface with sandpaper of 220 gradation. Do not apply **PU FEST 2K** varnish during the hottest hours of the day, when weather conditions are not favorable, and on damp substrates.

In addition, the **3K PLUS** additive to **PU FEST 2K** varnish can be used in areas exposed to heavy foot traffic, water and dirt. This product is not mandatory, **PU FEST 2K** or **PU FEST TURBO** varnish alone provide high resistance. Additional products are used to extend the life of the varnish.

PU FEST TURBO varnish/sealer :

Shake the container of **PU FEST Turbo** polyurethane varnish well. Add the hardener according to the marking on the package. Pour the hardener in a ratio of 2:1 (2 parts by weight of component A : 1 part by weight of component B) into the container with the varnish and mix thoroughly. Leave the container open for about 10 minutes, then stir again. Apply with a high-quality roller with a bristle length of min. 6mm. After 24 hours from application and after sanding the surface with sandpaper of 220 gradation, it is possible to apply a second coat of **PU FEST Turbo** varnish. Do not apply **PU FEST Turbo** varnish during the hottest hours of the day, when weather conditions are not favorable, and on damp substrates.

- The floor can be used after 12 hours.
- Water resistance after 7 days.
- Full curing after 7-14 days.
- The usage instructions given are for conditions: 22°C and 50% humidity.
- Lower temperature and higher humidity may increase the drying time of the products.



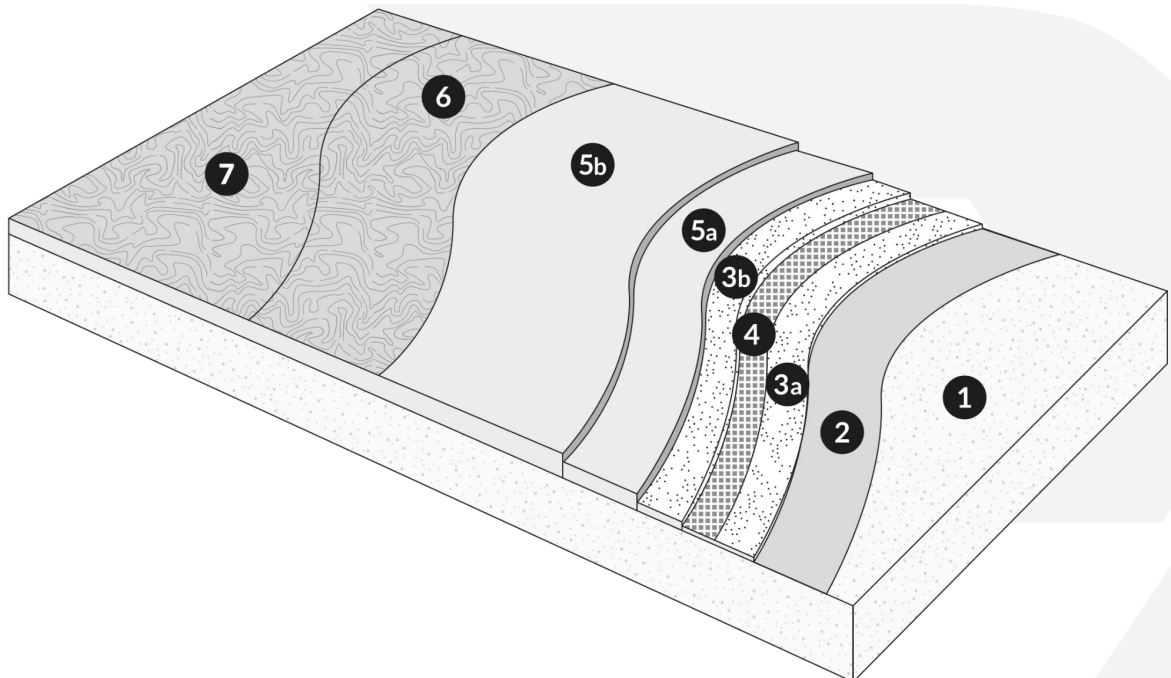
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ADDITIONAL INFORMATION - MATERIAL CONSUMPTION

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]	TITAN BASE	Approx 1-1,2 kg/m ²
4	Fiberglass mesh [optional]	Siatka SUPER THIN	-
3b	Base layer [optional]	TITAN BASE	Approx 0,8-1,0 kg/m ²
5a	First layer of FESTFLOOR TITAN microcement	FESTFLOOR TITAN	Approx 0,4-0,8 kg/m ²
5b	Second layer of FESTFLOOR TITAN microcement	FESTFLOOR TITAN	Approx 0,4-0,8 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


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CLEANING OF TOOLS

Clean equipment and tools immediately after use with water. Remove the bound material mechanically.

STORAGE

Products included in the **FESTFLOOR TITAN** system can be stored for 18 months in original sealed packaging and in a dry place at temperatures from +10°C to + 25°C, away from heat sources. Protect from frost.

DAILY FLOOR CARE

FESTFLOOR TITAN floors are decorative floors and therefore special attention should be paid to its use and care:

- use water for daily cleaning
- under the furniture - chairs, tables, etc., it is recommended to put felt pads in order to load the objects evenly, as well as to reduce in the formation of dents,
- spills and other contaminants should be removed immediately after soiling, especially in the first period of use of the floor,
- remove more difficult dirt with FEST Cleaner or POWER-FEST,
- do not use products with low PH and those that may cause discoloration,
- before using a new cleaning product, it is recommended to perform a test in an invisible place.

For more information, please refer to the instructions for use of Festfloor microcement decorative coatings.

SAFETY PRECAUTIONS

The product is intended for professionals. Before starting work, familiarize yourself with the Safety Data Sheets of the components that make up the system, available upon request (e-mail: hello@festfloor.com). 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 with mortar. Keep out of the reach of children. It is recommended to use mask and gloves. In enclosed areas, ensure good ventilation and avoid inhaling dust.



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