FESTFLOOR

TECHNICAL DATA SHEET

TITAN BASE

Base layer for strengthening the substrate before microcement application



DESCRIPTION

TITAN BASE is a two-component primer for strengthening the substrate and embedding fibermesh before applying microcement. Thanks to the use of aggregate, it provides excellent adhesion and durability, creating a solid base for subsequent finishing layers.

WHERE TO USE?

- On all types of floors
- On floors with underfloor heating
- In areas where the substrate is unstable
- On self-leveling screeds

PROPERTIES

- Very high adhesion to many types of substrate
- High hardness
- Easy application

PACKAGING

- 16 + 1.6 kg set (16 kg TITAN BASE and 1.6 kg TITAN HARDENER)
- 8 + 0.8 kg set (8 kg TITAN BASE and 800 g TITAN HARDENER)

CLEANING OF TOOLS

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

SYSTEM COMPONENTS

The TITAN BASE system consists of:
- TITAN BASE - base coat compound (component A)
- TITAN HARDENER - hardener (component B)

STORAGE

Products forming part of the TITAN BASE system may be stored for 6 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.

FLOOR SURFACE PREPARATION

The substrate must be stable and load-bearing. In the case of cement screeds, the substrate concrete class must be at least C16/20 (B20), with a minimum pull-off strength of 1 N/mm². The substrate moisture 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, a system waterproofing must be applied.
Before starting the work, the underfloor heating must be turned on and tested to the highest temperatures used. No later than 72 hours before starting the application of the FESTFLOOR system, the underfloor heating must be switched off. Weak substrates must be strengthened. Cement laitance, other coatings, and any contaminants, e.g. from gypsum, oils, asphalt, etc., must be removed by sanding or shot blasting and vacuuming.
If the substrate is uneven or non-uniform, it must be sanded or leveled using self-leveling screeds or epoxy screed. Fill any defects with epoxy mortar or repair mortars. The concrete substrate should be primed with FEST Grunt (1 or 2 coats, as needed) and left to dry for about 2-4 hours.

MESH EMBEDDING

After priming the substrate with FEST Grunt, proceed with embedding the fibermesh. This can be done in two ways:
1. Using the TITAN BASE base layer. The fibermesh should be laid out on the substrate and cut to fit the room. Then prepare the components and apply the material onto the fibermesh. The application of TITAN BASE is described below.
2. Using the additional liquid polymer FEST Liquid. The fibermesh should be laid out on the substrate and cut to fit the room. Before opening FEST Liquid, shake it, pour it into a paint tray and spread it on the fibermesh using a microfiber roller. After 2-4 hours, when the polymer is dry, you can proceed with preparing and applying the TITAN BASE base layer.

MIXTURE PREPARATION

TITAN BASE is supplied in two components: base layer compound (component A) and hardener (component B), which, when combined, form a floor compound that is easy to apply. The suggested mixing ratio of the components is 10:1 (10 parts of component A to 1 part of component B).
For precise measuring of the components, all components should be weighed on precision electronic scales. The application temperature is 15°C-25°C. Application at higher temperatures will significantly shorten the setting time. Application at lower temperatures may lead to insufficient curing of the material.
Before starting work, ensure good lighting in the room. Drafts should be avoided. Other works on the construction site that generate dust and other contaminants that may move around should be stopped. During work, it is recommended to use disposable shoe covers to avoid soiling the floor. TITAN HARDENER should be stored in a cool, shaded place before and during application.
Pour TITAN HARDENER (component B) into the TITAN BASE base layer compound (component A) and mix using a basket mixer at low speed. Mix the whole until a homogeneous mass is obtained. After mixing, you can proceed with applying the material to the previously prepared substrate.

APPLICATION

1. Prepare an amount of the compound sufficient for application over the entire surface. Spread the compound over the surface using a trowel and embed the fibermesh in it. After 18-24 hours, when the material has fully set and is dry, the floor should be sanded with a 50-grit diamond pad. Sand hard-to-reach areas with handheld eccentric sanders. Vacuum the entire surface.
2. Then proceed to applying the second layer, in which the fibermesh is no longer embedded. After 18-24 hours, when the floor has dried, it should be sanded as before: with a 50-grit diamond pad. After that, you can proceed with applying the microcement.

SAFETY AND HEALTH

Product intended for professionals. Before starting work, read the safety data sheets of the components included in the system, available on request. Avoid contact with skin, mucous membranes and eyes. In case of accidental contact, rinse with soap and water and seek medical advice. Take measures to prevent dusting or splashing with the mortar. Keep out of reach of children. It is recommended to use masks and gloves. In enclosed spaces, provide good ventilation and avoid inhaling dust.

CONSUMPTION

No.	LAYER	MATERIAL	CONSUMPTION
1	Existing concrete substrate	-	-
2	I primer coat	**FEST Grunt**	Approx. 0.2-0.3 kg/m²
3	II primer coat [optional]	**FEST Grunt**	Approx. 0.2 kg/m²
4	I base coat (with fibermesh - optional)	**TITAN BASE + fibermesh**	Approx. 1-1.2 kg/m²
5	II base coat	**TITAN BASE**	Approx. 0.8-1.0 kg/m²