UNIFLOOR®

Polymer-cement universal floor base, thickness 25 – 50 mm

PRODUCT DESCRIPTION

UNIFLOOR is a thin-layer, ready to use after mixing with water cement base containing hard aggregate, high-performance cements and proper admixtures.
To be used on new and existing concrete floors.

USE

- Making of thin-layer floor bases on concrete surfaces.
- Perfect for flats, shopping malls, shops, production plants, schools, airports, train stations, car showrooms and sacral buildings.

PRODUCT CHARACTERISTICS

- Versatility
- Easy to use
- High structural strength
- May be used along with DST, PCC and polished floors

APPLICATION CONDITIONS

The temperature of the ambient and foundation during the works and for the next 5 days should be between +5°C and +30°C. The surface made should be protected from losing water too quickly as a result of, for example, high temperatures, draught, sunlight operation etc. In order to ensure high quality and uniform colour, all works should be performed with suitable tools in an area protected from dust, EPS balls and similar impurities.

PREPARATION OF THE FOUNDATION

The foundation must be of carrying capacity, hard, stable, dry, compact, with no cracks and free from impurities. The compressive strength of the concrete foundation should be no less than 25 N/mm^2 and the peel strength - no less than 1.5 N/mm2. The foundation should be cleaned mechanically, e.g.: by shot blasting or milling. Weak or soft foundations (such as asphalt), which might crack or deform under loads, should be removed.
Double primed the foundation with BAUGRUNT diluted with water and leave to dry, according to its technical sheet. On the foundation prepared in this way apply bonding layer of BAUBOND and spread with a hard brush (detailed information on the bonding layer is included in the technical sheet of BAUBOND).

PREPARATION OF MORTAR

To 2.5-2.7 l of clean, cold water pour 30 kg (a bag) of dry UNIFLOOR mixture and mix for 3-4 minutes in a concrete mixer or with a slow-running drill with a mixer until a homogenous mass is obtained. Prepare portions which will be used within about 15 min. Do not add more water than the instructions indicate, as this will decrease the strength and increase the contraction of the mortar. In the wintertime the material should be kept in a heated room prior to mixing. Low temperature of the material may cause that some additions will not be able to dissolve during mixing. Too high temperature of the material will decrease the spread of the mortar and result in too quick bonding.

APPLICATION

Spill prepared UNIFLOOR mortar on the foundation and spread to the desired thickness using a long float along with a laser levelling instrument or spacer strips, while smoothing the surface with a long float until uniform, smooth structure is obtained.

FINISHING

WET TO WET
When the surface hardens to a degree that it can be stepped on without leaving too deep traces, troweling with power trowel should be commenced. Before the selected product is spread, UNIFLOOR must achieve proper hardness. The setting time of the base depends on the temperature, relative humidity of the air etc. The surface of the base must not get too hard, therefore its condition must be frequently checked. As a result, selection of the optimal moment to begin application of the mortar will be possible. TERRATOP, BAUFLOOR or BAUTOP ENDURO, MULTITOP ENDURO in WTW version. The works may be commenced when the imprints of feet on the base are not deeper than 3-4 mm. Remove excess of cement grout from the surface of the base and refresh it with a disc. Then begin the application of one of the above-mentioned products, in accordance with instructions contained in the technical sheet of the selected product.

DRY TO WET
Before surface hardening agent EXTRATOP ENDURO, BAUTOP ENDURO, MULTITOP ENDURO OR MULTITOP is used, the base must achieve proper hardness. The setting time of the base depends on the temperature, relative humidity of the air etc. The surface of the base must not get too hard, therefore its condition must be frequently checked. As a result, selection of the optimal moment to begin application of the surface hardener will be possible. The works may be commenced when the imprints of feet on the base are not deeper than 3-4 mm. Remove excess of cement grout from the surface of the base with rubber squeegees and refresh the surface with a disc. Then apply the hardening agent in accordance with the technical sheet.
Immediately after the troweling is completed, the whole surface should be treated with one of the following compounds: BAUSEAL ENDURO, BAUSEAL EKO or TERRASEAL. The compound should be applied in accordance with the technical sheet.

WET TO DRY
When the surface hardens to a degree that it can be stepped on without leaving too deep traces, troweling with power trowel should be commenced. The troweling process should be performed only using a disc. The surface of the floor should remain even and rough.
When the floor dries up, the maintenance process should be commenced, during which BAUGRUNT diluted 1:5 should be applied in two layers. Surface that is impregnated in such a way does not require grounding before the application of BAUBOND bonding layer in the application process of TERRATOP.
Before applying BAUFLOOR, the third layer of BAUGRUNT should be applied, diluted with water 1:3.

UNDER RESINS
When the surface hardens to a degree that it can be stepped on without leaving too deep traces, troweling with power trowel should be commenced. The initial troweling should be made with a disc and subsequent ones with blades set at gradually larger angles. The troweling process should be performed in such a manner that the surface of the floor remains even but matt.
During the maturation period (28 days at +20°C and relative humidity 65%) the floor must be covered with polyethylene sheet.
Before the application of resins the humidity of the base must be checked – it should not exceed 4%.

CAUTION! All contraction and expansion joints as well as working cracks in the foundation should be reconstructed in the layer of UNIFLOOR mortar and filled with BAUFLEX sealant.

CLEANING TOOLS

The equipment and tools should be cleaned with water immediately after use. Hardened material can only be removed mechanically.

HEALTH AND SAFETY PRECAUTION

The mixture contains cement - mixed with water gives an alkaline reaction. Avoid breathing, protect eyes and skin. In case of contaminations: clean eyes with plenty of water, wash skin with soap and water. Working areas should be ventilated. Keep away from the children.

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STORAGE

6 months from the date on the packaging, if stored in original, tightly closed packaging, in ventilated rooms, at the temperature between 5°C and 25°C.

PACKAGING

30 kg bags, pallet 35 x 30 kg = 1050 kg

MISCELLANEOUS INFORMATION

All the information herein refers to products stored and used according to our recommendations, has been presented in good faith and takes into account the current state of knowledge and experience of BAUTECH. You are obliged to use the product in accordance with its intended purpose and BAUTECH's recommendations. All the technical information provided is based on laboratory tests and trials. Out-of-laboratory tests may give different results due to the conditions, location, manner of application and other circumstances that are out of BAUTECH's control. Any different recommendations issued by our employees must be made in writing; otherwise, they shall be deemed null and void. These instructions replace all the previous ones and make them void.

Fire rating	$A1_{fl}$
Release of corrosive substances	cement mortar (CT)
Compressive strength after 28 days	$\geq$ 20 N/mm^2 (C20)
Bendig strength after 28 days	$\geq$ 5 N/mm^2 (F5)
Thickness	25 - 50 mm
Mixing proportions	2,5-2,7 litrów wody na 30 kg
Consumption	about 2,0 kg/m^2 / each mm of thickness
Application temperature	od +5°C do +30°C
Usability*	pedestrian traffic: 14 days complete resistance: 28 days
CE	09 EN 13813 CT-C20-F5

*At the temperature of +20°C and relative air humidity of 65%: Higher temperature and lower humidity shorten, while lower temperature and higher humidity increase the specified time.

TECHNICAL DATA

Product compliant with **EN-13813**

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