TERRATOP®
Polymer-cement, thin-layer decorative screed
15 – 30 mm

DESCRIPTION
TERRATOP – part of TERRAFLOOR grinded floor system, is a thin-layer, ready to use after mixing with water, cement screed containing hard aggregate, high-performance cements and proper admixtures and pigments. To be used on new and existing concrete floors.

USE
- Production of even, smooth, abrasion-resistant, thin-layer, troweled concrete floors that are suitable for intensive use on new and repaired concrete foundations
- Perfect for flats, shopping malls, shops, production plants, schools, airports, train stations, car showrooms and sacral buildings

PRODUCT CHARACTERISTICS
- Look similar to granite
- Mirror-like smoothness and gloss
- Easy to clean
- Long life
- Easy implementation
- High mechanical and chemical resistance
- For indoor and outdoor applications
- Wide range of colours

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
WET TO DRY
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/mm² 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.
In order to level the surface, universal polymer-cement floor base UNIFLOOR can be used, according to the technical sheet of the product.

Ground the foundation with BAUGRUNT, according to its technical sheet (grounding under TERRATOP) and leave to dry. 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). Then start applying prepared TERRATOP mortar.

WET TO WET VERSION
TERRATOP mortar can be applied on the surface of freshly-made floor concrete, of low contraction properties, class no less than C20/25, made in accordance with design assumptions, or on universal polymer-cement floor base UNIFLOOR in accordance with the technical sheet of the product.
Before mortar TERRATOP is spread, the concrete/base must achieve proper hardness. The setting time of concrete/base depends on the temperature, relative humidity of the air etc. The surface of the concrete/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 TERRATOP mortar will be possible. The works may be commenced when the imprints of feet on the concrete/base are not deeper than 3-4 mm. Remove excess of cement grout from the surface of the concrete/base and refresh it with a disc. Then start applying prepared TERRATOP mortar.

PREPARATION OF TERRATOP MORTAR
To 2.5-2.7 l of cold, clean water pour 30 kg [a bag] of dry TERRATOP 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 PROCESS OF TERRATOP MORTAR
Spill prepared TERRATOP mortar on the foundation and spread to the desired thickness using a distance scraper or 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. During application workers should walk on BAUBOND bonding layer and on the fresh floor in spiked boots.
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, until a smooth, even surface is obtained. Immediately after the troweling process is completed, but not earlier than when shoe imprints may be left on the floor, maintenance preparation TERRASEAL should be applied in the amount of about 0.15–0.20 l/m². Apply the sealer on the dry surface with spraying method and spread it with a microfibre mop, until the entire surface is covered, so that the floor remains wet for 15 minutes. Repeat the application in faster drying places.
When the maintenance preparation has completely dried up, cover the surface with polyethylene sheet to provide additional protection from external factors. The sheet should be left on the floor throughout the maturation period until the grinding works begin. Expansion joints should be cut when the saw blade does not tear the aggregate off TERRAFLOOR. The sheet should be removed from the floor for the time of these works. When the contraction joints are cut, the whole surface should be covered with sheet again. Filling of joints with BAUFLEX sealant should be performed during or immediately after the grinding works on the top surface of TERRAFLOOR are completed.

Operating conditions of maturing TERRATOP
Pedestrian traffic is permitted 7 days after the building in, complete load of the floor may be used after the grinding process, but not earlier than 28 days from the moment of building in.
7 days after building in, if the temperature does not drop below 20°C, the grinding process may be commenced. Lower temperature will slow the maturation process down and extend the period after which grinding may be started.

GRINDING PROCESS
The surface of the floor must be homogenous and free from impurities. Before commencing the grinding process, all impurities (dirt, dust, oil spills, impregnations, care products) should be removed mechanically and all defects and damages repaired.

Necessary tools:
- Levighezor Max (concrete up to 500m²) or Expander 750 (concrete over 500m²)
- SuperVak KY 80 vacuum cleaner
- Metal diamonds: DTO,DT1,DT2 (240mm)
- Polishing diamonds: MCK 3, MCK 4, MCK 5, MCK 6, MCK 7 (75mm)
- Chemical agents: TERRASEAL, TERRACOAT, AKTIVATOR

BAUTECH Sp. z o.o.
ul. Staszica 25, 05-500 Piaseczno, Poland
tel. +48 22 716 77 91; fax +48 22 716 77 90
e-mail: bau@bautech.eu
www.bautech.eu
**TERRATOP with basalt aggregate:**

The grinding process is started with metal diamond disks Klindex DT 0 placed on the planetario. Grind the floor until perfectly even level is achieved. Repeat the process using metal disks Klindex DT 1, DT 2. The walls must not be approached, as this may cause breaches; the recommended safe distance is 5 cm. Also, working crosswise is recommended (first grind the surface from up down and from down up, then from right to left and from left to right.) While working with diamond and metal disks DT diamonds should be sharpened with Aktivator. When the works with disk MCK DT2 are completed, the floor must be vacuum-cleaned and washed. The next stage is application of TERRASEAL according to the technical sheet of the product. Apply the preparation on the dry surface with spraying method and spread it with a microfibre mop, until the entire surface is covered, so that the floor remains wet for 15 minutes. Repeat the application in faster drying places. Then wait 3-6 hours depending on the ventilation of the room. The next stage is work with polishing disks. This will finally eliminate shallow scratches. Commence works with diamonds Klindex MCK 3, MCK 4. Grind also crosswise, but this time the walls can be approached.

The final stage is polishing of the floor using diamonds MCK 5, MCK 6 and MCK 7 and brightening with natural hair pads and TERRACOAT preparation according to the technical sheet of the product. TERRACOAT should be applied using a high-quality microfiber mop, so that no streaks are left on the surface, these will remain visible and will negatively influence the appearance of the floor.

**TERRATOP with quartz aggregate:**

The grinding process is started with metal diamond disks Klindex DT 0 placed on the planetario. Grind the floor until perfectly even level is achieved. Repeat the process using metal disks Klindex DT 1, DT 2. The walls must not be approached, as this may cause breaches; the recommended safe distance is 5 cm. Also, working crosswise is recommended (first grind the surface from up down and from down up, then from right to left and from left to right.) While working with diamond and metal disks DT diamonds should be sharpened with Aktivator. When the works with disk MCK DT2 are completed, the floor must be vacuum-cleaned and washed. The next stage is application of TERRASEAL according to the technical sheet of the product. Apply the preparation on the dry surface with spraying method and spread it with a microfibre mop, until the entire surface is covered, so that the floor remains wet for 15 minutes. Repeat the application in faster drying places. Then wait 3-6 hours depending on the ventilation of the room. The next stage is work with polishing disks. This will finally eliminate shallow scratches. Commence works with diamonds Klindex MCK 3, MCK 4. Grind also crosswise, but this time the walls can be approached.

The final stage is polishing of the floor using diamonds MCK 5, MCK 6 and MCK 7 and brightening with natural hair pads and TERRACOAT preparation according to the technical sheet of the product. TERRACOAT should be applied using a high-quality microfiber mop, so that no streaks are left on the surface, these will remain visible and will negatively influence the appearance of the floor.

**CAUTION!** Before commencing polishing works, it is recommended to perform a trial fragment of the floor measuring about 5m² in order to establish the wear and consumption of the tools, chemical agents and to establish the final effect that will be achieved.

Losses in the floor, which happened due to mechanical works, should be completed with TERRAFILL, in accordance with the technical sheet of the product.

All contraction and expansion joints as well as working cracks in the foundation should be reconstructed in the applied layer of TERRATOP mortar and filled with BAUFLEX sealant or BAUFIX filling insert.

**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.

**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 × 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.

The surface of the made floor may have differences in the hue and colour saturation, appearance (uneven, similar to the natural distribution of aggregates, the aggregate losses) depending on the conditions and manner of performing works, drying conditions etc. This is not a defect of the product and does not influence the technical parameters and functional properties of the floor. Colour diversification of the floor may also result from non-homogenous concrete foundation.

---

**BAUTECH Sp. z o.o.**
ul. Staszica 25, 05-500 Piaseczno, Poland
tel. +48 22 716 77 91; fax +48 22 716 77 90
e-mail: bau@bautech.eu
www.bautech.eu
# TECHNICAL DATA

Product compliant with EN-13813

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire rating</td>
<td>A1i</td>
</tr>
<tr>
<td>Release of corrosive substances</td>
<td>cement mortar (CT)</td>
</tr>
<tr>
<td>Compressive strength after 28 days</td>
<td>&gt; 30 N/mm² (C30)</td>
</tr>
<tr>
<td>Bendig strength after 28 days</td>
<td>&gt; 10 N/mm² (F10)</td>
</tr>
<tr>
<td>Abrasion resistance – Boehme test</td>
<td>basalt: 3.6 cm³/50 cm², quartz: A6</td>
</tr>
<tr>
<td>Mixing proportions</td>
<td>2.5 - 2.7 litres of water / 30 kg</td>
</tr>
<tr>
<td>Thickness</td>
<td>15-30 mm</td>
</tr>
<tr>
<td>Consumption</td>
<td></td>
</tr>
<tr>
<td>TERRATOP</td>
<td>about 2.0 kg/m²/mm</td>
</tr>
<tr>
<td>BAUGRUNT</td>
<td>0.1 - 0.2 l/m²</td>
</tr>
<tr>
<td>BAUBOND</td>
<td>1.8 kg/m³</td>
</tr>
<tr>
<td>TERRASEAL</td>
<td>0.21 - 0.27 l/m²</td>
</tr>
<tr>
<td>TERRACOAT</td>
<td>0.02 - 0.06 l/m²</td>
</tr>
<tr>
<td>Application temperature</td>
<td>od +5°C do +30°C</td>
</tr>
<tr>
<td>Usability*</td>
<td>pedestrian traffic: 14 days complete resistance: 28 days</td>
</tr>
</tbody>
</table>

*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.