

## X-FLOOR SYSTEM®

### Refined, polished concrete flooring system

#### PRODUCT SPECIFICATION

**X-FLOOR** System is made of chemically hardened, ground and polished concrete floorings. For use at new and existing concrete surfaces.

#### USAGE

- To make even, smooth concrete floorings with increased resistance to abrasion and intensive use
- For renovation of existing concrete floors
- Ideal for flats, shopping malls, shops, production plants, schools, airports, railway stations, car showrooms and sacral establishments.

#### PRODUCT CHARACTERISTICS

- "Reflexive" gloss and extra illumination of rooms
- Easy to clean
- Long life
- Ease and low costs of application
- High chemical and mechanical resistance
- Smooth, hard surface
- Very high abrasion resistance
- Elimination of vibrations on moving machines and vehicles
- Ecological
- Low costs of maintenance and care treatment

#### CONDITIONS OF APPLICATION

Ambient and foundation temperatures at the execution of works should range from +5°C up to +30°C. In order to ensure the high quality of flooring, all works should be performed by means of appropriate tools in surroundings protected against dust and similar impurities.

In case of new floorings, the grinding process can be started not earlier than 7 days after outpouring a concrete slab.

#### GRINDING PROCESS

Flooring surfaces must be uniform and free from impurities. Prior to grinding, all impurities (dirt, dust, oil stains, impregnation and maintenance agents) should be mechanically removed; all voids and defects should be repaired and filled.

You start the grinding process using planetario-based, 60-grit metal diamond discs. A flooring must ground till its perfectly equal level. You repeat the process using 120-grit metal discs. Do not come too close to walls as it may make breaches; 5 cm is recommended as a safe distance. It is also recommended to work "crosswise" (surfaces should be first ground from bottom to top and from top to bottom and then from right to left and back again).

TERRASEAL (or TERRASEAL MEGA HARD for extra flooring strengthening) is applied next. The product should be applied at a dry surface through spraying and spread using a micro-fibre mop to get complete coverage to make the floor remained wet for 15 minutes. Re-apply in places which dry faster. Then wait 3-6 hours depending on room ventilation.

Then polishing discs are to be used. At this stage it will ensure the final elimination of shallow scratches. It should be started using

100-grit diamonds. Grinding should also be done "crosswise" but at this stage you are allowed to come close to walls. Usually at this stage all voids and pores can be noticed and filled with TERRAFILL. Grinding with 200-grit diamonds should follow (in the same way as for 100-grit grinding). At this stage you can further stain your flooring with TERRATINT colouring agent in line with the product technical data sheet.

The final step will be to polish your flooring with diamonds with the following gradations: 400, 800, 1500, 3000, ending on 3000 and then brightening with TERRACOAT and natural bristle pads. For additional protection against stains e.g. made of oil, wine, coffee, TERRACOAT SR should be applied instead of TERRACOAT.

**ATTENTION!** Every time prior to processing, flooring should be vacuumed.

TERRACOAT agent should be applied using a high-quality micro-fibre mop so that flooring surfaces have no streaks as they will be visible and negatively affect their aesthetics.

Upon drying (approx. 60 minutes), surfaces should be polished with a soft (white) pad or special polishing diamond polishing pads giving polished surface temperature of approx. 30°C. Depending upon a level of required gloss, this operation can be repeated 2-3 times.

**ATTENTION!** Prior to starting works connected with grinding it is recommended to make some trial flooring with its area of about 5 m<sup>2</sup> in order to determine tool wear, amount of applied chemicals and identify capabilities to achieve the final result.

Flooring defects caused by mechanical treatment should be supplemented with TERRAFILL agent in accordance with the product card.

All shrink and expansion gaps or cracks within a foundation should be filled with BAUFLEX expansion mass.

#### CLEANING OF TOOLS

Equipment and tools should be cleaned immediately after use with water. Bound material should be mechanically removed.

#### SECURITY MEASURES

Places / rooms where works are performed must be well ventilated. Staff should use protective clothes, shoes, glasses and gloves. In case of skin contact any affected area should be washed immediately with soap and water. Agents are Ph-alkaline and can cause eye and skin irritation. In case of irritation, consult a doctor. This product is not harmful to the environment. Keep out of reach of children.

#### ADDITIONAL INFORMATION

- All the information refers to products stored and used in accordance with our recommendations and is given in good faith, taking into account the current state of knowledge and experience held by BAUTECH. All users are obliged to apply the product in line with its intended purpose and recommendations given by BAUTECH. All given technical specifications are based on laboratory trials and tests. Factual measurement results may not be identical because of different circumstances, location, method of application and other factors beyond the control of BAUTECH. Different recommendations made by our staff must be made in writing to be valid. At the moment of publication of this instruction, all previous ones become void.

- X-FLOOR flooring surfaces may show variances in colour shade and saturation, appearance (uneven, close-to-natural distribution of aggregates, aggregate losses) depending on the conditions and manner of works, drying conditions, etc. - it is not a product defect and does not affect the technical parameters and properties of this flooring. Varied colours of floorings may also result from non-uniform concrete surfaces.

**USAGE OF MATERIALS**

|                                   |   |
|-----------------------------------|---|
| TERRASEAL / TERRASEAL<br>MEGAHARD | 0.21 - 0.27 l/ m <sup>2</sup>                               |
| TERRACOAT / TERRACOAT SR          | 0.02 - 0.06 l/ m <sup>2</sup>                               |
| TERRAFILL                         | 0.02 - 0.06 l/ m <sup>2</sup>                               |
| TERRATINT                         | approx. 10 - 20 m <sup>2</sup> /litre for<br>a single layer |