

Base paving

- In the case of not having a sanitary floor slab, and in order to avoid later moisture seepage, the concrete floor must be insulated with plastic material or conventional insulating materials.
- Prepare a perfectly level concrete floor and wait until it is completely dry before laying the tiles.
- After having made the base pavement it is important to observe that there are no cracks, since this could later have repercussions on the tiles that we have to place.

Placement

- Place the hydraulic tile on a well-leveled, clean and dry surface. A damp basement will cause lime stains to appear on the surface of the tile.
- Apply flexible tile adhesive cement (preferably white) on the floor, make the mixture not too soft to avoid movement of the pieces and spread with a trowel with short teeth. Apply tile adhesive in the same way on the underside of the tile ("double gluing"). Place the pieces and level them carefully trying to avoid any bumps, as the pieces will not be able to be lowered afterwards.
- Do not use a rubber hammer as this could mark the pieces and also cause micro-cracks.
- After installation, wait 72 hours before walking over them.
- For dark colours, we recommend the use of a quick-setting tile adhesive cement to minimize the appearance of the classic lime stains caused by the evaporation of the soluble salts in the mixture used to lay the tiles.
- A joint of 1 to 2 mm must be left between pieces, using "plastic crosspieces" to obtain the indicated joint space.
- The corresponding expansion joints must be left in the flooring (consult your technical department responsible for the project management).
- It is advisable to soak the pieces in water before laying them for a better grip.
- Place the hydraulic tile on a well-levelled, clean, and dry surface. A damp basement will cause lime stains to appear on the surface of the tile.
- The installation of our mosaics on a radiant floor requires the use of a special cement.
- It is recommended to cover the material with a breathable protection sheet such as Geotextile or similar once installed to protect it from the industrialists who continue to work on the site. Avoid cardboard as it could stain the piece or plastic as the pieces would not transpire.
- *Do not use self-levelling shims as they may mark the pieces.*

Waterproofing treatment

➤ *When the pavement is completely clean and dry, it is convenient to apply the waterproofing treatment with our product Torra Sealer. This waterproofing reduces the porosity of the pieces, protecting them from possible stains. It should be noted that this waterproofing will prevent the liquid from penetrating the piece as long as it is removed as soon as possible.*

- ***Before applying the grout on the pavement it is advisable to give a first coat of TORRA SEALER waterproofing on the clean and dry surface, it is important to leave 72 hours after cleaning the mosaic to ensure that the water that we have used for cleaning will be completely evaporated and thus the waterproofing that we will apply can penetrate properly throughout the pore of the tile, it is also important to note that it has completely disappeared the remains of moisture, a result of the material used in its placement. Apply a thin layer of sealer with the help of a brush of 20 cm. and in horizontal and vertical sense (Do not apply it in excess since the rest of not absorbed product would leave shining spots in the hydraulic tiles).***

- **24 hours after the application of the waterproofing product, the grout corresponding to the hydraulic tiles must be applied (see following section: Application of the grout) When the pavement is completely CLEAN AND DRY of any remaining grout or dirt that may remain on the surface, apply the second coat of waterproofing product.**
- **Totally CLEAN AND DRY of any rest of grout or dirt that could remain in the superficial part, we will apply the second coat of waterproofing product.**
- *Torra Sealer is a waterproofing product; in no case is it a finishing product for the hydraulic mosaic.*
- *For a more satin, glossy or crystallized finish of our hydraulic tiles, please consult our technical department where we can recommend a professional for this type of work.*
- *For a greater protection of our mosaics in the professional use of our hydraulic tiles (restoration, bars, stores, hotels, etc.) it is also advisable the hands of a professional for treatment.*

ATTENTION: It is recommended to make a test on a loose piece before applying the treatment on the whole pavement.

Grouting Applications

- **Once the pieces are placed, we will fill the joints with a plastic and flexible grout (always use light colours since dark colours could stain the pieces, the mixture should be made quite liquid and with a rubber trowel until it fills the entire joint, repeat this process until the joint is completely filled with material. The excess of material should be cleaned immediately with a damp cloth or sponge; in tiles with relief it is important to make sure that the tile is totally clean before applying the waterproofing. Acids should not be used to remove excess cement or to clean the tiles as they could be damaged. To clean the remains of the end of work, cement, etc.; you can use our product Torra Floor Cleaner.**
- **Once the whole installation process is finished, in some cases and during a certain period of time, it is possible to observe the appearance of some white stains (efflorescence) produced by the solidification of soluble salts contained in the water. This behaviour is quite common in this type of material. The stains will disappear with daily use and as the pavement is washed with water and neutral soap.**

Material Finishing and Maintenance

- **Do not use strong detergents, acids, or alkaline detergents. These could irreversibly damage the parts. For optimal preservation of your hydraulic tile, we recommend scrubbing the floor once a month with our product Torra Wax Tile Plus.**
- **Mosaics Torra is not responsible for the use of other products not recommended by our brand.**
- **For a shinier or aged floor finish, we recommend the use of our Torra Wax Tile Wax.**
- **For clean and maintain your cement tiles, use our product Torra Maintenance.**

VERY IMPORTANT:

- **No claims may be made on the product once installed.**
- **Installation of the product constitutes acceptance of the product.**
- **No exchanges or returns of the material will be accepted.**
- **the hydraulic mosaic tile may not be lowered under any circumstances.**
- **our hydraulic mosaics should not be polished with steel wool as this may cause stains on the pieces.**

It is very important to store the hydraulic mosaic in a dry and covered place as humidity or contact with water could stain the pieces and this would be an irreversible problem.

The Torra team