

## INSTALLATION GUIDE

Avoid installing products under unfavorable environmental conditions such as frost, extreme heat, heavy rain etc.

Please perform a general inspection of the specification and aesthetical condition of concrete terrazzo products and make sure that products are free from defects or damage before installation. Prior to the start of concrete terrazzo installation, we recommend a mock-up application for the owner and architect to review and approve.

Install paver and coping products according to the production date and batch or pallet sequence number. We recommend blending of paving units to assure a visually consistent color and shade composition.

Paving units packed in a crate or pallet may be partially wet or damp exhibiting a shade or color variation of higher degree. Please dry the products and assure that this temporary variation is neutralized before installation.

Materials that can impart color to or cause staining should not be used for protecting surfaces before or after installation. Wood shavings, wooden panels, colored plastic sheets, etc. should be avoided.

### 1. SAND SET INSTALLTION

- Ensure the deck area is cleared of debris and properly leveled.
- Plan the layout of coping stones and pavers, considering design and drainage requirements.
- Bedding sand should conform to ASTM C33. Choosing the right sand for pool coping and paver installations is crucial. Washed sand, free from impurities and with particle sizes typically between 0.1 to 2 mm, ensures good adhesion, effective compaction, and stable base formation. It also promotes drainage, crucial for pool environments. In contrast, clayed sands, due to their moisture retention, poor compaction, and potential for stain retention, are unsuitable. They may lead to uneven surfaces, drainage issues, and mar the appearance of pavers over time, necessitating more frequent maintenance.
- Spread a layer of bedding sand evenly over the prepared area, then use a screed board or straight edge to level it to a thickness of 20-30 mm. Compact the sand thoroughly using a plate compactor to establish a firm and stable base for laying coping stones and pavers.

### 2. MORTAR SET INSTALLATION

- Ensure the deck area is cleared of debris and properly leveled.
- Plan the layout of coping stones and pavers, considering design and drainage requirements.

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- In one tub mix concrete using 1 part cement and 4 parts sand to create a firm mixture that you can ball up easily in your hand. You may also opt for a premix that you just add water to. In another tub, mix up some “concrete butter” which is a much softer mixture of plain cement, like that of soft butter, but not runny.
- We recommend products conforming to ANSI A118.4 MORTAR standards
- For outdoor applications thick-set mortar (3-5 cm) is preferred over thin-set.
- Optionally, mesh reinforcement can be placed within the mortar. This application is generally used for areas where vehicles will pass over.
- Place the tiles on the thick-set mortar and press them lightly into place. Frequently check the tiles for levelness and alignment. Use tile spacers to maintain consistent gaps between the tiles.
- Wait minimum 24 to 48 hours before making the joints. During this period, any kind of traffic is forbidden.

### **3. CEMENT BASED ADHESIVE INSTALLTION**

- It is mandatory to apply these slabs with "C2-S1 class" flexible adhesive cement, and also to apply it on the inner face of the slabs (double gluing).
- Spread the adhesive cement on the receiving surface in a thin and even layer to ensure uniform absorption and make minor leveling corrections.
- Use a float trowel to apply the adhesive cement to the receiving surface, then distribute it with a notched trowel over a small area.
- Double gluing is required, applying adhesive cement on both the inner face of the slabs and the receiving surface.
- Place the tiles onto the adhesive spread on the receiving surface and press them down (either by hand or using a soft hammer) to ensure the adhesive slots are well-crushed. The adhesive contact with the slab should be at least 90%.
- Periodically check the stickiness of the adhesive on the receiving surface to ensure it is still within the usable time frame (without forming a surface film) to maintain its technical performance.
- Occasionally lift a tile to verify proper adhesion.
- Use spacers to ensure consistent joint widths between the tiles.
- Remove any excess adhesive that fills the gaps between the tiles to avoid complications when filling the joints.
- Allow at least 24 to 48 hours after gluing before filling the joints. During this time, avoid any traffic on the surface.

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## **4. JOINT FILLING APPLICATION**

- It is advised to place separation joints with a thickness min. 2 mm for outdoor use.
- Mix the grout following the manufacturer's instructions on the packaging.
- Fill the joints with a flexible grout in the desired color using a piping bag or jointing machine to ensure it does not come into contact with the tile surfaces.
- You should be careful not to stain the tiles or copings clean up promptly the product excess with a damp sponge. Avoid any kind of traffic on the tiles in the next 24 hours.