



OTTO

— TILES & DESIGN —

Cement Tile

INSTALLATION AND MAINTENANCE GUIDE

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Welcome to Otto Tiles & Design

Otto Tiles & Design is a contemporary tile company with a rustic touch and the provider of unparalleled quality artisan tiles.

Our Mission

At Otto Tiles, we design and create handcrafted tiles that blend heritage, artistry, and modern aesthetics. Our mission is to bring meaningful beauty into homes and spaces around the world —one tile at a time— while honoring the artisans behind each piece and inspiring connection through design.

Our Vision

With Turkish roots, Otto Tiles aims to become the world's most soulful design brand bridging the East and West. Reviving timeless craftsmanship, celebrating cultural heritage, and transforming everyday spaces into living works of art.



Otto Cement Tiles are suitable for,

- Walls and floors
- Indoor and outdoor
- Showers and wet areas
- Kitchen and Bathroom
- Backsplashes
- High-traffic commercial areas
- Fireplace surround
- Use with underfloor heating.

Ingredients

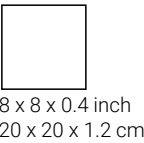
- Mineral pigments
- Cement
- Marble powder
- Natural colour pigments
- Hand-made brass mold

1 cement tile weight	1 cement tile thickness	1 sqf cement tiles contains 0.4 inch (1.2 cm)	1 sqf cement tile box 0.4 inch (1.2 cm)
2.2 lbs (1.02 kg)	0.4 inch (1.2 cm)	2.32 tiles	4.4 lbs (2.04 kg)

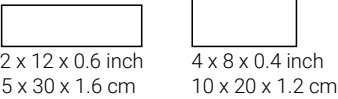
This chart is for 8x8 inch (20x20 cm) size tiles

Handmade Cement Tiles

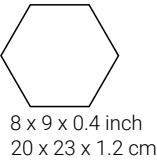
SQUARE TILES



RECTANGLE TILES



HEX TILES



Cutting these tiles into any shapes and sizes.

Slip Rates

According to KSS Pendulum test results made in the UK

Ref	Area / Room	Surface Type	Ambient Temp (°F)	Mean (Average) Reading	Pass / Fail
1	Sample	Encaustic cement	68°F (20c°)	DRY62	
		Matt		WET38	PASS
2	Sample	Encaustic cement	68°F (20c°)	DRY71	
		Sanded		WET62	PASS



How Do We Produce Encaustic Cement Tiles?

We produce encaustic cement tiles using cement, natural color pigments, and water. The encaustic cement tiles are eco-friendly because they are handmade and never have to be fired in a kiln, so the energy used in our production process is significantly low. Unlike ceramic and porcelain, the fundamental production processes for encaustic cement tiles are almost entirely sustainable and straightforward.

What Makes Our Tiles Distinct From Others?

There are three significant differences in our encaustic cement tiles.

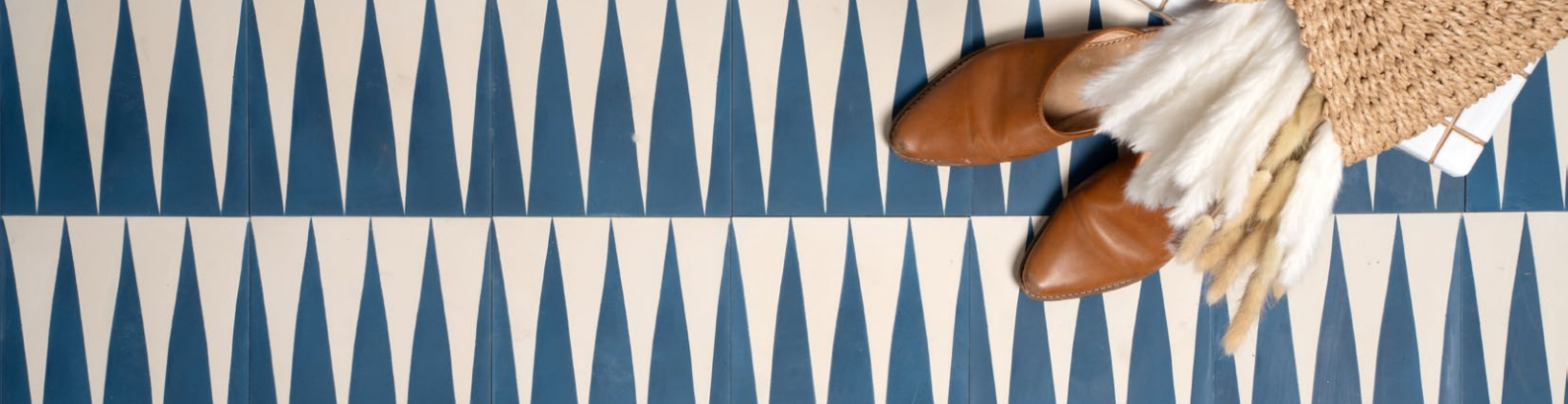
We offer 0.5" thickness instead of 0.7". This is our new technology, using high-standard FIBER in the tile. Using our tiles saves almost 50% less cement and carbon footprints. These Slimline cement tiles are as durable and versatile as 0.7" in the market. They are less heavy and make them very easy to install on the walls and floors.

Our encaustic cement tile molds are handcrafted by artisans using traditional techniques. It provides a natural look and imperfection to the lines and patterns and avoids the perfect look of machine-cutting molds.

Our encaustic cement tiles look natural and reclaimed like a genuine handmade encaustic tile is supposed to look. We use the finest natural color pigments and original production techniques to achieve and sustain these quality standards.

Every pattern begins in our London and Miami design studio — a space where craftsmanship meets imagination. We don't import ready-made tiles; we create our own. Each collection is an original expression of design, artistry, and the Otto spirit.





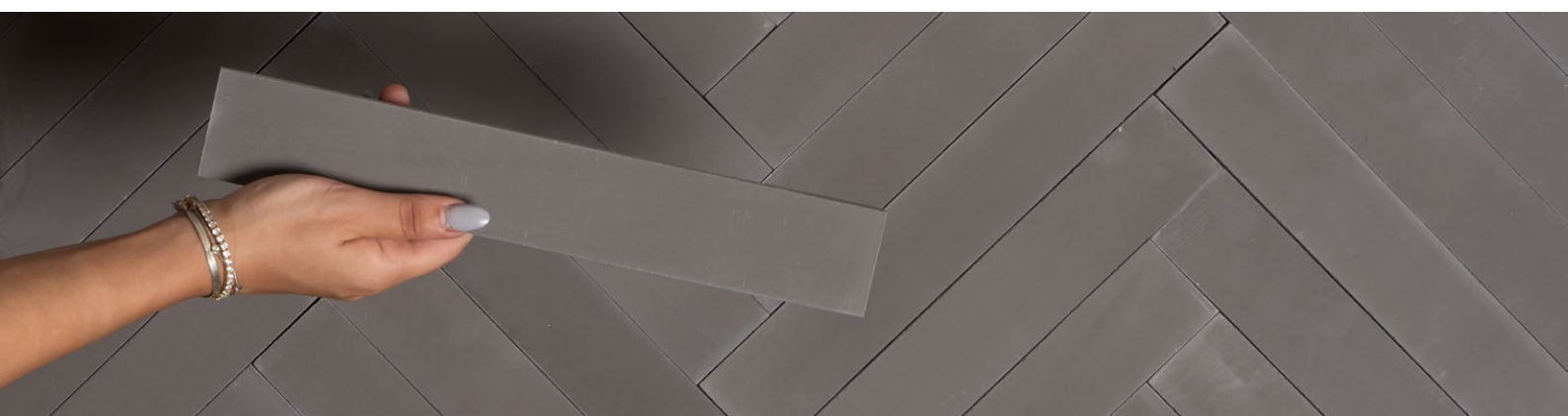
Welcoming Your Otto Tiles

- Each tile is unique and has slight color shades in it. Please blend the tiles from different boxes once to mix the shades.
- Please use gloves to protect your hands and tiles when taking them off their boxes.
- Take the products out of their boxes and lay them out with the patterned part facing up. Do not stack tiles on top of each other.
- Dust and shipping residue might be expected and should be cleaned before installation.
- Minor irregularities such as chipped edges and cracked surfaces can be expected, which are pretty usual for a handmade encaustic cement tile.
- We suggest adding at least %15 overage to your order due to tile cuts for covering edges/corners. Potential breakage occurs during the transportation and installation. Particularly if you have a strict deadline and your project schedule wouldn't tolerate extra production and shipment duration.





- Tiles need to be sealed immediately to protect them from any stains.
- Tiles can be easily sanded by hand or a wet grinding machine with 400 grit sandpaper. Sanding will effectively remove the tile's top layer and fresh pigments from underneath.
- Reducing carbon footprint and sustainability is crucially essential for us. Your products are delivered to you in recyclable cardboard boxes. We do not use a sheet of paper or Polystyrene Foam Brick between the tiles that are generally still moist from production during shipping. Sheets of paper and foam bricks can turn to mold or contribute to clouding.
- Large orders are delivered on pallets as kerbside. When you receive the products, you may not take them out of the pallet immediately. Please protect your products by considering the weather conditions.





Installation Tips



[Click on image to watch installation video](#)

Preparation

- Although DIY has become a popular trend in recent years, perfect tiling still requires a bit of mastery and experience. If you have no experience in tiling, we highly recommend an experienced and professional tiler.
- The surface must be level, dry, clean, and free from dust and oil.
- Encaustic cement tiles are handmade products, and they are produced by using natural materials. Slight thickness, weight, and color tone differences are inherent features. To avoid stacking similar tiles in the same place, tiles must be picked from different boxes.
- Tiles must be cut with a diamond cutter or angle grinder and cleaned immediately afterwards.



- If installation problems occur from substrate or construction engineering and/or installation issues, please refer to your project architect, structural engineer, and/or a tiler for the best results for your tile finish.

As a standard rule, installation means acceptance. Do not install if there is a visible issue on the tile, and please get in touch with us before installation. Otto Tiles does not cover misuse by the tiler/builder/contractor or end-user, including but not limited to negligence and physical and/or chemical abuse.

- To ensure proper bonding during installation, we recommend lightly wiping the back of each tile if there is excessive dust.



Installation

- The tile installer must allow space for grouting when setting the tiles. We recommend 0.03 inch (1mm) for the best aesthetic results.
- A flexible, strong adhesive is recommended for areas subject to sudden changes in temperature. Waterproofing materials must be used for wet areas. It would be more accurate for your architecture or tiler to advise how much adhesive you need to use according to the project surface, square meter, and leveling.
- If applicable, floor heating systems must be turned off at least 12 hours before the tile setting. Leave a minimum 0.1 inch (3mm) grout space if you install tiles on underfloor heated floors.

SEALING IS A MUST. Please seal tiles before and after grouting. Grout color is an important design decision -almost as important as the tile color itself. For a traditional look, explore lighter neutral color Mapei Ultracolor Plus FA grouts. For a more modern aesthetic, grout color can be matched as closely as possible to the color of the tile. Grout color selection is always up to our client and/or their architect. However, Otto Tiles is often asked for our opinion on the best grout selections for our tiles. We are pleased to give you grout color options for your tile.

- Rubber hammers or similar tools must not be used for setting the tiles as they may cause hairline cracks.
- Encaustic cement tiles can be installed on backsplashes, in bathrooms, and showers
- A waterproof membrane is needed to use under the tile.

Otto Tiles is a tile supplier; what is written in this guide is for advice. Otto Tiles does not cover misuse by contractor, tiler, and end-user, including but not limited to negligence, physical and/or chemical abuse.



Sealant

- Due to the porous nature of encaustic cement tiles, all tiles **MUST** be sealed before and after grouting.
- Otto Tiles only recommends Stonetech Impregnator Pro Sealer or Miracle 511 Porous Plus. Sealant is a transparent liquid will never change your tile's color, finish, or texture.
- Stonetech Impregnator Pro Sealer or Miracle 511 Porous Plus estimated coverage is 32.2 to 64.5 square feet (3 to 6 m²/L)
- Please make sure to follow the Stonetech Impregnator Pro Sealer or Miracle 511 Porous Plus application instructions.
- Make sure the sealant is dry, and always test on a small area to make sure the tiles are not stained.
- The surface to be treated must be absorbent, clean, and completely dry. Suitable application tools: cloth, brush, or sponge.
- If your contractor/tiler has any issues or questions regarding this sealant, please have them reach out to Stonetech or Miracle 511 Porous Plus directly.

Tip: If water does not bead up on the surface of tiles, then the sealant is not applied correctly.





Grouting

- Otto Tiles only recommends Mapei Ultracolor Plus grout for cement tile installation. Please follow the Mapei application instructions to avoid the risk of staining/grout haze.
- Recommended grout gap size is 0.03 inch (1 mm). They are suitable for underfloor heating, but remember to leave a minimum 0.11 inch (3 mm) grout gap.
- Grouting should be applied after an interval, typically one day. The waiting time depends on the surface, environmental conditions, and the type of adhesive used.
- Always test the grout on a small area to ensure the tiles are not stained.
- Grout small areas of between 21.5 to 43 square feet (2 sqm to 4 sqm) at a time so that cleaning can begin before the grout skins over and dries on the tile surface.
- Once the setting and grouting are complete, allow an extra drying period before use to avoid movement and cracks.
- Excess grout must be cleaned immediately with clean water and a clean, damp cloth/sponge.
- Change your water bucket frequently to prevent the occurrence of a haze on the tile surface.
- Use a "clean as you go" approach to spreading and washing the grout to ensure that cleaning begins before the grout skins over and dries on the tile surface. Do not allow the grout to harden on the surface.
- If the grout hardens, you can clean it with non-acidic chemicals, but you must rinse immediately with a sponge and water.
- Grout color selection is always up to our client and/or their architect. However, Otto Tiles is often asked for our opinion on the best grout selections for our tiles. We are pleased to give you grout color options for your tile.
- Grout staining is only a problem if the guidelines set for Stonetech Impregnator Pro Sealer, Miracle 511 Porous Plus and Ultracolor Plus by Mapei aren't followed properly.





- Please follow the Mapei Ultracolour Plus application and cleanup instructions to avoid the risk of staining/grout haze and allow for easy application and cleanability.
- Read all installation instructions thoroughly before use.
- If your contractor/tiler selects brands other than Mapei grout, Stonetech Impregnator Pro Sealer or Miracle 511 Porous Plus sealant, please have them contact their manufacturers' representatives for advice and support on failures.

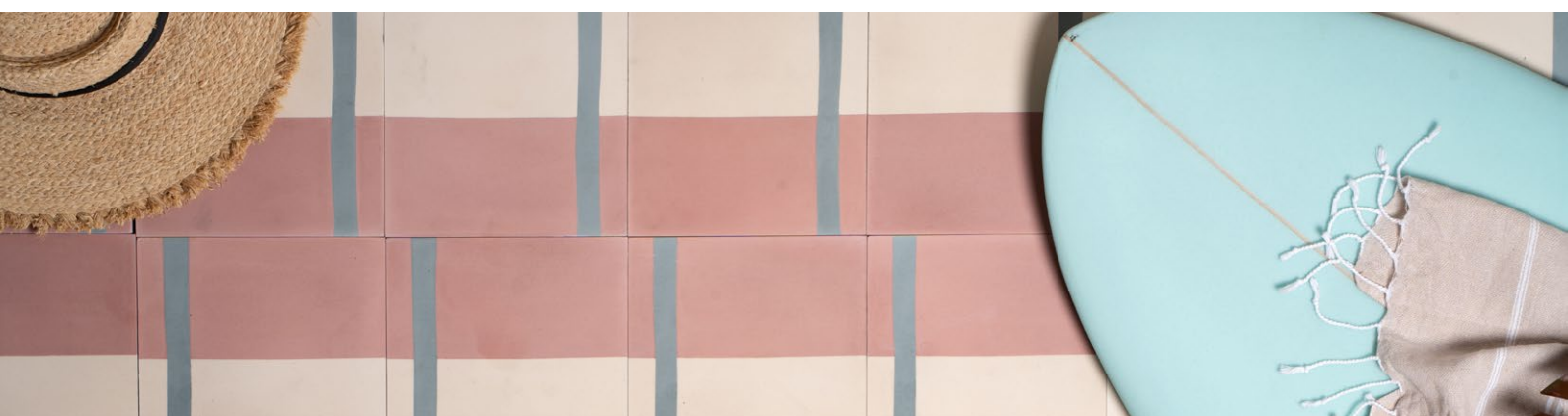
Aftercare

- Over time, a natural patina will occur on your tiles due to their nature, and they will develop a rustic, aged look. Some staining is part of this, and it's totally normal.
- Water spotting can be avoided with a regular cleaning routine, which includes resealing the floor every two to three years, depending on the conditions of wear. With interior high traffic areas and commercial spaces, discuss applying a topical sealer with your installer.
- We recommend Fila Surface Solutions Matt Wax sealer to bead water and provide an extra protection layer to the surface of the tile.
- Single coat reapplication of the penetrating sealant is required once a year in the shower applications due to continuous exposure to water.
- Sealant durability is up to 5 years on outdoor surfaces. Indoor durability depends on the care products used.
- Check with the Stonetech Impregnator Pro Sealer or Miracle 511 Porous Plus tech support directly for the best advice on applying and maintaining sealants.



Cleaning

- Immediately clean up spills, and do not allow liquids to sit on the tile surface. Excess fluid can stain, pit, and crack the tile.
- Vacuum or sweep regularly; abrasive dirt and materials can scratch the surface. Non-slip mats or area rugs should be placed inside and outside entrance ways to remove corrosive materials that can scratch and dirty the tile surface.
- Mop floors regularly with clean water and pH-neutral cleaner.
- Shower wall and floor installations should be squeegeed after each use to prevent limescale stains, soap scum, and mold.
- Always use pH neutral cleaners such as Miracle Tile and Stone Cleaner. Heavy cleaning and stain removal – use Miracle Heavy Duty Cleaner -Acid Substitute and follow instructions on label.
- For stubborn stains, you may need to clean the area with a wet grinding machine. The result will be a gentle removal of a micro-layer, exposing a like-new pigment surface. Do not forget to reseat your tiles after this process.
- Oil and hair dye product stains are difficult to remove from cement. They will require the use of a professional cleaning service.





Miami

☎ +1 (786) 460 9098

✉ info@ottotiles.com

📍 7612 NE 4th Ct, Miami, FL 33138

London

☎ +44 2034 889317

✉ info@ottotiles.co.uk

📍 2 Ash Grove, London, E8 4RH

Istanbul

☎ +90 (212) 526 00 52

✉ istanbul@ottotiles.com.tr

📍 Firuzaga Mah. Cukurcuma Cad.
No:27A Beyoglu - Istanbul / Turkey

ottotiles.com • ottotiles.co.uk