



OTTO

— TILES & DESIGN —

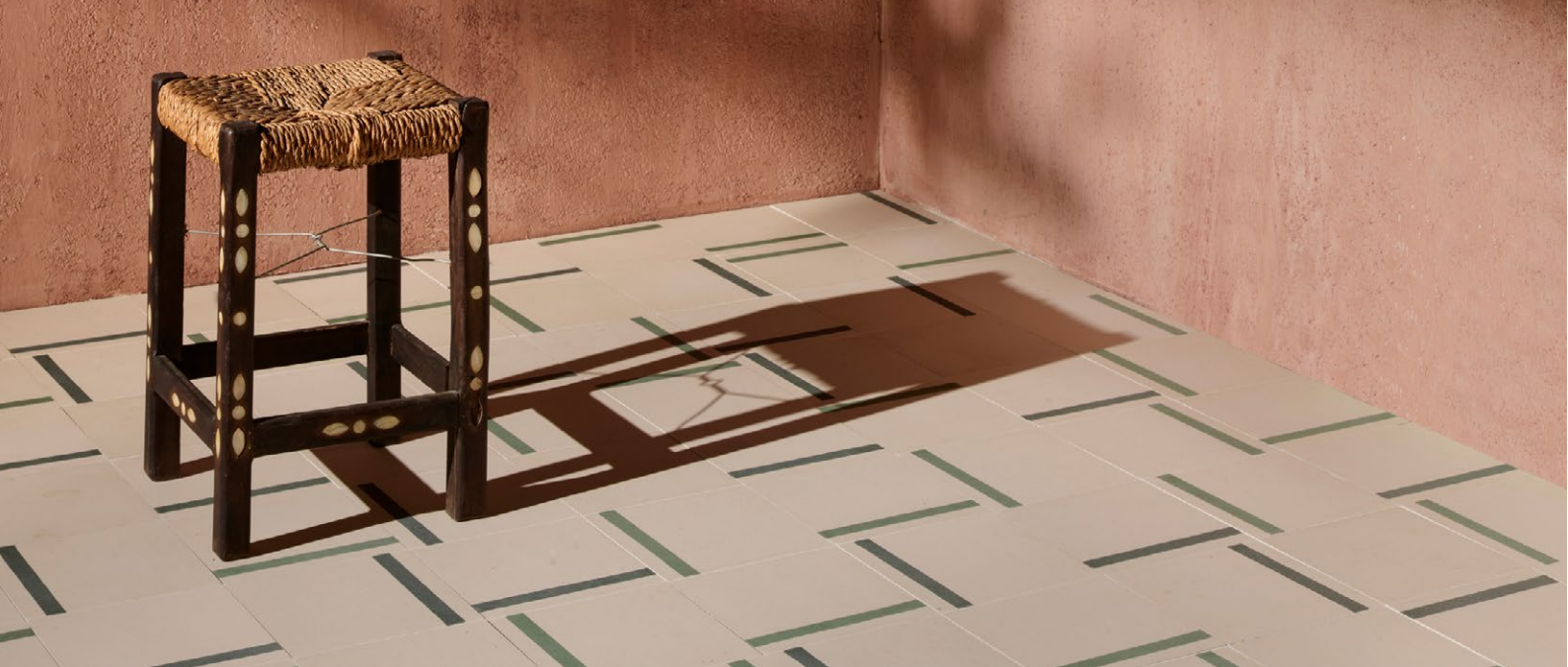
Cement Tile

INSTALLATION
AND
MAINTENANCE
GUIDE

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OTTOMAN CHIC



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

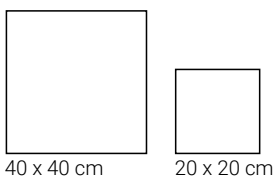
- Marble granules
- Cement
- Marble powder
- Natural colour pigments

1 cement tile weight	1 cement tile thickness	1 sqm cement tiles contains	1 sqm cement tile box
1.7 kg	1.7 cm	25 tiles	42 kg

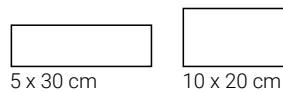
This chart is for 20x20 cm size tiles

Handmade Cement Tiles

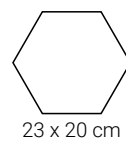
SQUARE TILES



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 (deg C)	Mean (Average) Reading	Pass / Fail
1	Sample	Encaustic cement	20c	DRY62	
		Matt		WET38	PASS
2	Sample	Encaustic cement	20c	DRY71	
		Sanded		WET62	PASS



How Do We Produce Encaustic Cement Tiles?

We produce encaustic cement tiles using cement, mostly reclaimed or recycled marble granules, marble powder and natural colour pigments. 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. Our colour layer is 8.5mm, giving unsurpassed durability.

What Makes Our Tiles Distinct From Others?

There are three significant differences in our encaustic cement tiles.

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

Our encaustic cement tiles look natural and reclaimed like a genuine handmade encaustic tile is supposed to look. The polish and spotless perfect look isn't the characteristic of an authentic handmade encaustic tile. To achieve and sustain these quality standards, we use the finest natural colour pigments and the original production techniques.

They are literally durable and long-lasting. The average thickness of an encaustic cement tile sold on the market is around 15 to 18 mm, and 3 to 5 mm of this thickness is the colour layer. But we use the thickest colour layer on the market. Our encaustic cement tiles are 17mm, and the colour layer is 7 to 8mm. That means you have thicker colour layers to sand. You can sand and seal our tiles years after the installation and regain the day one look.





Welcoming Your Otto Tiles

- Each tile is unique and has slightly colour shades in it. Please blend the tiles from different boxes once to mix the shades.
- Since the encaustic cement tiles have a water-dense production process, the tiles contain moisture. If the tiles are kept in the box for a long time, the humidity would penetrate the tiles more profoundly and may cause water stains. Tiles must be removed from their boxes and dried thoroughly as soon as the tiles are received.
- 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, wet and shipping residue might be expected and should be dried/cleaned before installation.
- Minor irregularities such as chipped edges and cracked surfaces can be expected, which are quite 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.





- Smudging caused by friction during transport and clouding on tile surface where the pre-application of sealant has humidified rare. But sometimes, these occasions may occur. Smudging tends to be more noticeable on high-contrast colours such as black and white patterned tiles.
- 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 mould or contribute to clouding.
- Large orders are delivered on pallets as kerbside. When you receive the products, you may not be able to 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 colour 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 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 architect or tiler to advise how much adhesive you need to use according to the project surface, square meter and levelling.
- If applicable, floor heating systems must be turned off at least 12 hours before the tile setting. Leave minimum 3 mm grout space if you install tiles on underfloor heated floors.

Please seal tiles before and after grouting. It is highly recommended for dark-coloured grouts.

- 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.
- Encaustic cement tiles are not suitable for pool or fountain use.

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 Lithofin MN Stain Stop. Sealant is a transparent liquid and will never change the colour, finish and texture of your tile.
- Lithofin Sealant estimated coverage is 3 to 6 m²/L
- Please make sure to follow the Lithofin [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 is having any issues or questions regarding this sealant, please have them reach out to Lithofin 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 make sure to follow the Mapei [application instructions](#) to avoid the risk of staining/grout haze.
- Recommended grout gap size is 1 mm. They are suitable for underfloor heating but remember to leave a minimum 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 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 is 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 colour 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 colour options that will go with your tile.
- Grout staining is only a problem if the guidelines set for Lithofin MN Stain Stop and Ultracolor Plus by Mapei aren't followed properly.





- Please make sure to follow the Mapei Ultracolor Plus application and cleanup instructions to avoid the risk of staining/grout haze and to allow for easy application and cleanability. Read all installation instructions thoroughly before use.
- If your contractor/tiler selects brands other than Mapei grout or Lithofin sealant, please have them reach out to their representatives of those manufacturers 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.
- Sealing annually is sufficient for high-traffic areas.
- Single coat reapplication of the penetrating sealant is required once a year in 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 Lithofin Sealant tech support directly at 01962732126 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 entranceways 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 avoid harsh chemicals and acidic products.
- 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 reseal 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.





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