

THE PERFECT

MINIMALIST ADDITION

maah

TILES
COLLECTION



60x
120cm

ALWAYS ONE STEP AHEAD

These materials excel due to their superior chemical and physical properties, consistent chemical composition, and ceramic characteristics, all ensured by real-time monitoring throughout production.



WATERPROOF



RESISTANT
TO SCRATCHES



EASY TO
CLEAN



HYGIENIC



RESISTANT TO
HIGH TEMPERATURES



RESISTANT
TO UV RAYS

mach
MARMO DI CERAMICHE

*MORE
THAN
TILES*



mach

Features

— that elevate your every space.



Water Absorption

By choosing Emcer Tiles with very low water absorption rates, you ensure that your investment in premium tiles and slabs will provide long-lasting performance and aesthetic appeal.



Slip Resistance

Safety is a priority with Emcer Tiles, which offer superior slip resistance. This feature ensures a secure surface underfoot, even in areas prone to water exposure, reducing the risk of slips and falls.



Abrasion Resistance

Designed to withstand heavy use, Emcer Tiles boast high abrasion resistance. They maintain their beauty and integrity even in high-traffic areas, making them a durable choice for both residential and commercial spaces.



Flexural Strength

Emcer Tiles exhibit remarkable flexural strength, providing excellent durability and resistance to breaking under pressure. This makes them suitable for various applications, including flooring and wall cladding.



Chemical Resistance

Our tiles are built to resist chemical damage, ensuring they remain unaffected by household cleaners, acids, and other corrosive substances. This makes them easy to maintain and long-lasting.



Thermal Shock Resistance

Emcer Tiles are designed to withstand sudden temperature changes without cracking or losing their integrity, making them ideal for areas exposed to extreme conditions, such as kitchens and outdoor spaces.



Stain Resistance

With advanced stain resistance, Emcer Tiles are easy to clean and maintain. Their surfaces resist absorption of spills and stains, keeping them looking pristine with minimal effort.



Fire Resistance

Safety is a cornerstone of Emcer Tiles. They offer excellent fire resistance, ensuring that they do not contribute to the spread of flames, making them a safe choice for any environment.



Moisture Expansion

Emcer Tiles are highly resistant to moisture, preventing issues like mold and mildew. This feature makes them perfect for humid environments and areas with frequent water exposure.

Certifications

— that proves our excellence.



ISO 14001:2015

ISO 9001:2015

ISO 45001:2018



Glossy

Elevate your interiors with the stunning sheen of our glossy surface tiles, available in a versatile 600x1200mm size. Perfect for both modern and classic settings, their sleek finish enhances the elegance of your space, making it effortlessly luxurious. Whether used in kitchens, bathrooms, or living areas, our glossy tiles provide a timeless appeal that transforms everyday spaces into extraordinary showcases of style. Experience the blend of functionality and beauty with tiles that truly shine.

Carving

Enhance your space with the distinctive texture of our carving surface tiles, available in a bold 600x1200mm size. These tiles feature intricate patterns and a tactile quality that adds depth and character to any interior. The carved designs create captivating visual interest, making them ideal for accent walls or feature areas that demand attention. Their large format ensures a seamless, elegant finish, while the textured surface brings a unique, artisanal touch to your decor.



Matt

Transform your home with the subtle elegance of our matte surface tiles, available in both 600x1200mm and 200x1200mm wooden plank styles. These tiles offer a refined, understated look that complements a wide range of design aesthetics, from contemporary to rustic. The matte finish reduces glare and provides a soft, natural appearance, creating a warm and inviting atmosphere. Whether you choose the larger format or the wooden planks, these tiles add depth and texture to your spaces, ensuring a timeless, stylish appeal.

APPLICATIONS

Construction Industry:

Floor and wall coverings, partition and storage walls, false ceilings, surface finishes and restoration, insulated panels, tunnels and undergrounds.

Facade cladding systems:

Ventilated facades, coatings, external claddings.

Interior design:

Surfaces of kitchen and bathroom tops, cupboards, tables, desks, doors and furnishings in general.

Composite and structural panels:

The slabs can be placed on top of each other or over other materials to create extremely light and particularly resistant composite and structural panels suitable in all those cases that require high resistance and reduced weight load on the surface.

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SALIENT FEATURES



Quality raw materials



No alteration in colour



Non-absorbent



Versatile for any project



Resistant to heavy loads



Resistant to liquids and acids



Resistant to thermal shock



Resistant to frost



Resistant to scratches and abrasions



Non-toxic slabs that do not release micro-particles



Surface suitable for contact with foodstuffs



Easy to clean



Hygienic surface

VIVID APPLICATIONS



Garden & Pools



Residences



Hotels



Offices



Restaurants



Shops



Malls



Airports



Railway Stations



Bathrooms



Interiors



Kitchens



Public Spaces

INSTALLATION PROCESS

LAYING (FLOORS)

In addition to the technical and aesthetic qualities of the material, in order to be a complete success floor also requires elements such as a foundation, an adhesive layer and expansion joints, which together comprise a real flooring system. A perfect end result is only guaranteed if the laying operations are performed correctly.

The floor should preferably be laid using adhesives, following the instructions provided by the adhesive manufacturers. For tiles measuring over 60x60 cm for floors subject to intensive use, a double layer system is advisable. For decorative tiles with precious material inserts, it is advisable to consult the instructions on the packaging. To make the most of the material characteristics, we recommend following these instructions during the laying process:

- Lay out a few pieces on the floor to check the overall effect. Lay material from several different boxes at once.
- Do not immerse the material in water before laying. If using the traditional laying system, tap the material until all the cavities and air bubbles have completely disappeared from the mortar and until liquid cement comes up through the spaces between the tiles. In the case of polished surfaces in particular, do not use pencils or pens to mark out cuts on the top of the tiles to be laid.

Wait 48-72 hours before subjecting the floor to everyday use.

INSTALLATION (WALL TILING)

Before starting the installation, it is recommended to check that the substrate is sufficiently cured, flat, mechanically resistant, without crumbling parts and grease, oils, paints and waxes (perfectly clean).

Choose the most suitable adhesive considering the following factors:

- type of substrate;
- type and size of the tiles;
- weather conditions at the installation;
- time available for the ceramic tiling to be ready for use.

It is recommended to follow the instruction of the best manufacturers of adhesives for the installation of ceramic tiles.

- Prepare the necessary material.
- Prepare the adhesive following the instructions of the manufacturer.
- Apply the adhesive on the substrate using a suitably toothed squeegee.

It is important to use a proper grout even according to the end use of the ceramic tiling, following the instructions of the best manufacturers of joint sealants.

For a correct and easy removal of the grout follow the indications of its manufacturer (previously checking its suitability).

WARNING : it is advisable to check the availability of the entire quantity of material required on site at the installation to allow the installer to mix the modules from several boxes for getting a pleasant effect. The check of the shades must be made before starting the installation.

GROUTING AND FINAL CLEANING

When using normal drying adhesives, grout the floor after 24-48 hours; when using rapid drying adhesives, grout after 4 hours. When working with polished materials in particular, use cement grouts of a matching tone, avoiding dark coloured grouts with pale materials, and vice versa. When grouting these surfaces, it is advisable not to use flexible mortars made from synthetic materials, especially if the colour contrasts that of the material, and not to use grout additives/latex. In fact, these products make it extremely difficult to remove any residue using normal cleaning products. If using grouts with contrasting or special pigments, take care to follow the information provided in the specifications and test the grout on the material beforehand. Use a rubber-coated spatula to apply the grout over the entire surface of the material. Grout small areas at a time, removing excess quantities with damp sponges or cloths (using clean water only) or specific equipment for removing excess grout, while the layer of grout is still damp. Adequate initial cleaning is fundamental to get the best shine and to ensure cleanability and easy everyday maintenance. Initial cleaning should therefore be performed immediately after laying, using acid-based products, scrubbing hard and rinsing with plenty of water. This will make it possible to remove any grout, adhesive and cement residue, etc. You may use any detergent available on the market, with the sole exception of products containing hydrofluoric acid (compounds and derivatives) as provided for by standard EN 14411. We recommend protecting the laid flooring carefully. When carrying out other operations such as painting, plumbing or any other work, we recommend covering the floor with PVC sheets, airballs or fabrics once it has been laid.

GENERAL ADVICE FOR GROUTING

Pay attention while choosing joint sealants: check the technical sheets, choose them shade-matched and follow carefully the recommended cleaning times, as many new generation coloured sealants contain pigments and additives that can be very strong.

CARE AND MAINTENANCE

These are so-called final cleaning operations; this is the most important step, as it influences the results of the subsequent use of the product. Its purpose is to remove any trace or residue of foreign matter from the surface of the slabs. If you have used a cement based sealant during installation, once the grout has dried, Emcer recommends out the following operations;

- Remove any coarse dirt using a vacuum cleaner;
- Wet the floor with clean water in order to soak and protect the joints against the corrosive action of the detergent;
- Clean using suitable acid detergent, which can be applied by hand (with a clean cloth) or with a machine (a single-brush machine with medium, non-abrasive bristles or a high-pressure water cleaner);
- Soak up the cleaning solution with a clean cloth or a suitable vacuum cleaner;
- Thoroughly rinse surfaces with clean, warm water to neutralise the action of the detergent;
- Remove any build-up by scraping it off;
- If needed, clean the surface again with the single-brush machine, using a diluted neutral or alkaline detergent, then rinse using clean warm water and dry.
- If any epoxy sealant has been used during installation of the product, given the chemical nature of such product, any remaining residue on the porcelain tile's surface should be removed before the grout has hardened completely and carefully follow the instructions supplied by the manufacturer.

Technical Specifications

CHARACTERISTICS	STANDARD AS PER ISO-13006/EN 14411 GROUP BIa	MEAN VALUE OF EMCER POLISHED GVT	MEAN VALUE OF EMCER RUSTIC GVT	TEST METHOD
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REGULATORY PROPERTIES

Deviation in Length & Width	±0.5%	±0.1%	±0.1%	ISO - 10545-2
Deviation in Thickness	±5.0%	±4.0%	±4.0%	ISO - 10545-2
Straightness in Side	±0.5%	±0.1%	±0.1%	ISO - 10545-2
Rectangularity	±0.5%	±0.1%	±0.1%	ISO - 10545-2
Surface Flatness	±0.5%	±0.2%	±0.2%	ISO - 10545-2
Color Difference	Unaltered	No Change	No Change	ISO - 10545-16
Glossiness	As per Mfg.	Min 90%	Min 4%	Glossmeter

STRUCTURAL PROPERTIES

Water Absorption	<0.05%	<0.20%	<0.20%	ISO - 10545-3
Apparent Density	>2.0 g/cc	>2.10 g/cc	>2.10 g/cc	DIN - 51082

MASSIVE MECHANICAL PROPERTIES

Modulus of Rupture	Min. 35 N/mm ²	Min. 40 N/mm ²	Min. 40 N/mm ²	ISO - 10545-4
Breaking Strength	Min. 1300 N	Min. 2000 N	Min. 2000 N	ISO - 10545-4
Impact Resistance	As per Mfg.	Min. 0.55	Min. 0.55	ISO - 10545-5

SURFACE MECHANICAL PROPERTIES

Surface Abrasion Resistance	As per Mfg.	Min. Class-3	Min. Class-4	ISO - 10545-7
Moh's Hardness	As per Mfg.	Min. 4	Min. 5	EN 101

THERMO HYGROMETRIC PROPERTIES

Frost Resistance	No Damage	No Damage	No Damage	ISO-10545-12
Thermal Shock Resistance	No Damage	No Damage	No Damage	ISO-10545-09
Moisture Expansion	NIL	NIL	NIL	ISO-10545-10
Thermal Expansion	Max 9.0x10 ⁻⁶	Max 6.5x10 ⁻⁶	Max 6.5x10 ⁻⁶	ISO-10545-08
Crazing Resistance	As per Mfg.	Min. 10 Cycle	Min. 10 Cycle	ISO-10545-11



CHEMICAL PROPERTIES

Chemical Resistance	No Damage	No Damage	No Damage	ISO-10545-13
Stain Resistance	Resistant	Resistant	Resistant	ISO-10545-14

SAFETY PROPERTIES

Slip Resistance	As per Mfg.	>0.40	>0.40	ISO-10545-17
Fire Resistance	As per Mfg.	Fire Proof	Fire Proof	N.A.
Lead & Cadmium given off by glazed tiles	As per Mfg.	Does not yield Pb & Cd	Does not yield Pb & Cd	ISO-10545-15

Packing Details

SIZE (IN MM)	THICKNESS (APPROX)	PIECES/ PER BOX	COVERAGE AREA (SQ. MTR.)	BOX WEIGHT (APPROX)
600X1200MM	9MM	2	1.44	27.5KGS.
200X1200MM	9MM	5	1.2	25.5KGS.
600X600MM	9MM	4	1.44	26.5KGS.

NOTE: Colour Shown are as accurate as the limitations of the printing process will allow. Prospective Customer are advised to inspect a sample of tiles before ordering, every effort has been made to ensure the accuracy of the information given. However, the Company research the right to change the specifications Without prior notice. Sometimes variations in shade or size being inherent to ceramic industry may occur. Before fixing, we advice you to follow the fixing instruction on the cartons of the tiles as no responsibility can be accepted by the once the tiles have been fixed.

Pallet Details

SIZE	THICKNESS	QUANTITY	WEIGHT	COVERAGE	PALLET PACKING	1 X 20' / 40' FCL CONTAINER LOADING SPECIFICATION				
						Total Pallet	Total Box	Total Sq.Mtr.	Total Net Weight	Total Gross Weight
200X1200	9	5	25.5	1.2	28	38	1064	1276.8	27,664.0	27,968.0
200X1000	9	7	28	1.4	20	49	980	1372	27,440.0	27,881.0
300X600	9	5	17.4	0.9	60	26	1560	1404	27,144.0	27,534.0
600X600	9	4	26.5	1.44	34	30	1020	14968.8	27,030.0	27,630.0
600X1200	5.5	3	27.2	2.16	28	36	1008	2177.28	27,417.0	27,957.0
600X1200	7	3	31.4	2.16	28	31	868	1874.88	27,255.0	27,875.0
600X1200	9	2	27.5	1.44	32	31	992	1428.48	27,280.0	27,528.0



**MORE
THAN
TILES**

EVOLUTION

Packing Detail

Size (in mm)	Thickness Appr ox	Pieces / P er Bo x	Coverage Ar ea In Sq.Ft.	Box Weight (Appr ox.)
600x1200mm	9mm	2 Pcs	15.5 Sq. ft	30 Kg

Technical Specification

CHARACTERISTICS	STANDARD AS PER ISO-13006/En14411 GROUP	VALUES	TEST METHOD
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REGULATORY PROPERTIES

Deviation in Lenth & Width	0.50%	0.20%	ISO - 10545-2
Deviation in Thickness	0.50%	0.50%	ISO - 10545-2
Straightness of Sides	0.50%	0.20%	ISO - 10545-2
Rectangularity	0.50%	0.20%	ISO - 10545-2
Surface Flatness	0.50%	0.20%	ISO - 10545-2
Color Difference	Unaltered	No Change	ISO - 10545-16

STRUCTURAL PROPERTIES

Water Absorption	<0.05%	<0.05%	ISO - 10545-3
Apparent Density	>2.00 g/cc	>2.10 g/cc	DIN 51082

MASSIVE MECHANICAL PROPERTIES

Modulus of Repture	Min 35N/MM2	Min 45N/MM2	ISO - 10545-4
Breaking Strength	Min. 1300 N	Min. 2000 N	ISO - 10545-4
Impact Resistance	As per Mfg.	Min. 0.55	ISO - 10545-5

SURFACE MECHANICAL PROPERTIES

Surface Abrasion Resistance	As per Mfg.	Min. class 3	ISO - 10545-7
Moh's Hardness	As per Mfg.	≥7 MOHS	EN 101

THERMO HYGROMETRIC PROPERTIES

Frost Resistance	No Damage	No Damage	ISO - 10545-12
Thermal Shock Resistance	No Damage	No Damage	ISO - 10545-09
Moisture Expansion	Nil	Nil	ISO - 10545-10
Thermal Expansion	Max 9.0x10 -6	Max 6.5x10 -6	ISO - 10545-08
Crazing Resistance	As per Mfg.	Min 10 Cycle	ISO - 10545-11

CHEMICAL PROPERTIES

Chemical Resistance	No Damage	No Damage	ISO - 10545-13
Stain Resistance	Resistant	Resistant	ISO - 10545-14

SAFETY PROPERTIES

Slip Resistance	As per Mfg.	>0.40	ISO - 10545-17
Fire Resistance	As per Mfg.	Fire Proof	N.A.

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Contact Details

+973 17741155 | +973 38700833 | +973 32214656

@hajigallery

www.hajigallery.com

info@hajigallery.com

SHOWROOMS:

Tubli & Segaya | Saturday - Thursday | 8:30 am - 8:00 pm

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hajigallery