



Technological
marble

UNLIMITED
MARBLE

COMPAC
THE SURFACES COMPANY

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THE SURFACES COMPANY

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THE SURFACES COMPANY

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COMPAC is a pioneer European company in manufacture and marketing of compacted, technological marble and quartz surfaces through the employment of engineered stone technology. Founded in 1975 in a small town in Valencia (Spain), this small family business has undergone constant growth to become the leading international company it is today, with production centres in Spain and Portugal and with presence across the 5 continents through its own warehouses and a network of over 250 associate distributors.

The company has a deeply rooted culture of technological innovation aimed at not only satisfying the functions needs of construction and habitat, but also the accomplishment of more personal, attractive and healthy areas.

This strive towards daily wellbeing and search to express creative capacity of people defines the lines of research followed by COMPAC over recent times and which can be defined by one single word: **SUSTAINABILITY.**

We continue along a path taken right from the birth of the company and which has become part of its personality: the recycling of materials through technological innovation to elaborate a quality product improving the characteristics and features of the original product without losing its natural values.





What is technological marble?

2

Technological marble is an advanced composite product containing between **91%** and **96%** of natural marble to which resins and other binders are added, so that, through an advanced technological process known as **“Engineered Stone”** based on vacuum vibro-compression, an improved product is achieved bettering natural stone while maintaining its essence and substantially enhancing its functional properties and decorative possibilities.





4 / 0.1
160/-



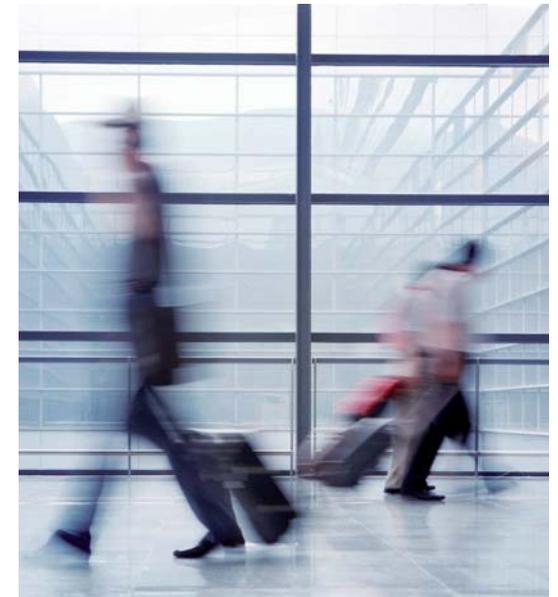
COMPETITIVE ADVANTAGES



Technological marble came about through advanced vision of the limitations of natural Stone for use in the modern construction trade stemming from its lack of uniformity and scarcity as a raw material.

Over-exploitation of quarries and the large quantity of unusable residues from stone quarrying were the cause for the search for a product capable of expressing new and innovative aesthetic and functional ideas in modern architecture while at the same time respecting the environment.

This contemporary, innovative product is COMPAC's technological marble, with which unique, personalised projects can be designed based on the tastes and needs of the end users.







Specialists prefer COMPAC technological marble because of its characteristics and quality:



With a hardness that is similar to natural stone, its resistance to impact and breakage is much greater owing to its enhanced flexibility.



This product is lighter and therefore easier to transport, handle and machine.



Its porosity is practically nil, and therefore absorption of water and other liquids is minimal, thus achieving a hygienic product that is both easy to clean and maintain.



Unlike natural stone, technological marble is uniform, and can be fitted to large surfaces without breaks or differences in colour tone being noticeable.



Like natural stone, technological marble can be polished, thus maintaining its shine and original appearance for longer.



It is a versatile product insofar as colours, textures, sizes and applications are concerned, and can be used on floors, walls, bathroom vanity tops, building facades, staircases, fireplaces, door frames, etc.



Recommendations for use

Owing to its special characteristics and durability, technological marble is appropriate for use as an advanced alternative to natural stone or other construction materials in a large number of applications.



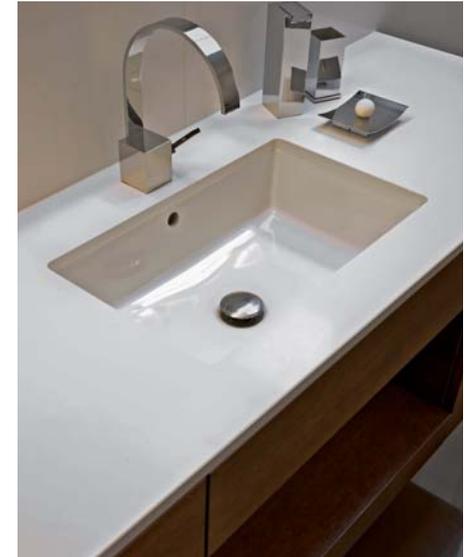
On high transit surfaces (airports, stations, shopping malls, public buildings, etc.) where its uniformity, resistance, ease of maintenance and decorative possibilities find the best place to show off their qualities.



This is a high performance product for use indoors or outdoors, since it keeps its qualities even under extreme climatic conditions.



Because it is both versatile and easy to handle it is the ideal product for fitting and combining on staircases, fireplace surrounds, door and window frames, cladding columns, furniture tops and many other applications that permit developing decorative projects only limited by one's imagination.



Because of its decorative capacity and practically zero porosity, it is highly recommended for use at home, especially in bathrooms where it can be used to tile floors, walls or on vanity tops.





THE COLLECTION

The wide variety of colours, textures, sizes and finishes of COMPAC's technological marble allows highly decorative and functional ambiances to be designed. Because it is easy to handle and is so versatile, it permits all manner of combinations and shapes albeit in large open-plan buildings or in small corners in houses.

Inspired on the latest decorative trends, the different product lines adapt to all kinds of spaces and ambiances, from the most avant-garde to those where the classic essence is maintained.











Floor and
skirting board:
BEIGE FARAYA

Wall and vanity top:
WHITE FARAYA

Column
and frieze:
**CAMELO
POLISHED**

Vanity Top:
**CAMELO
BUSH HAMMERED**









Floor and staircase:
WHITE FARAYA

Bar and wall:
BEIGE FARAYA

Wall shelf:
BLANCO MICRO





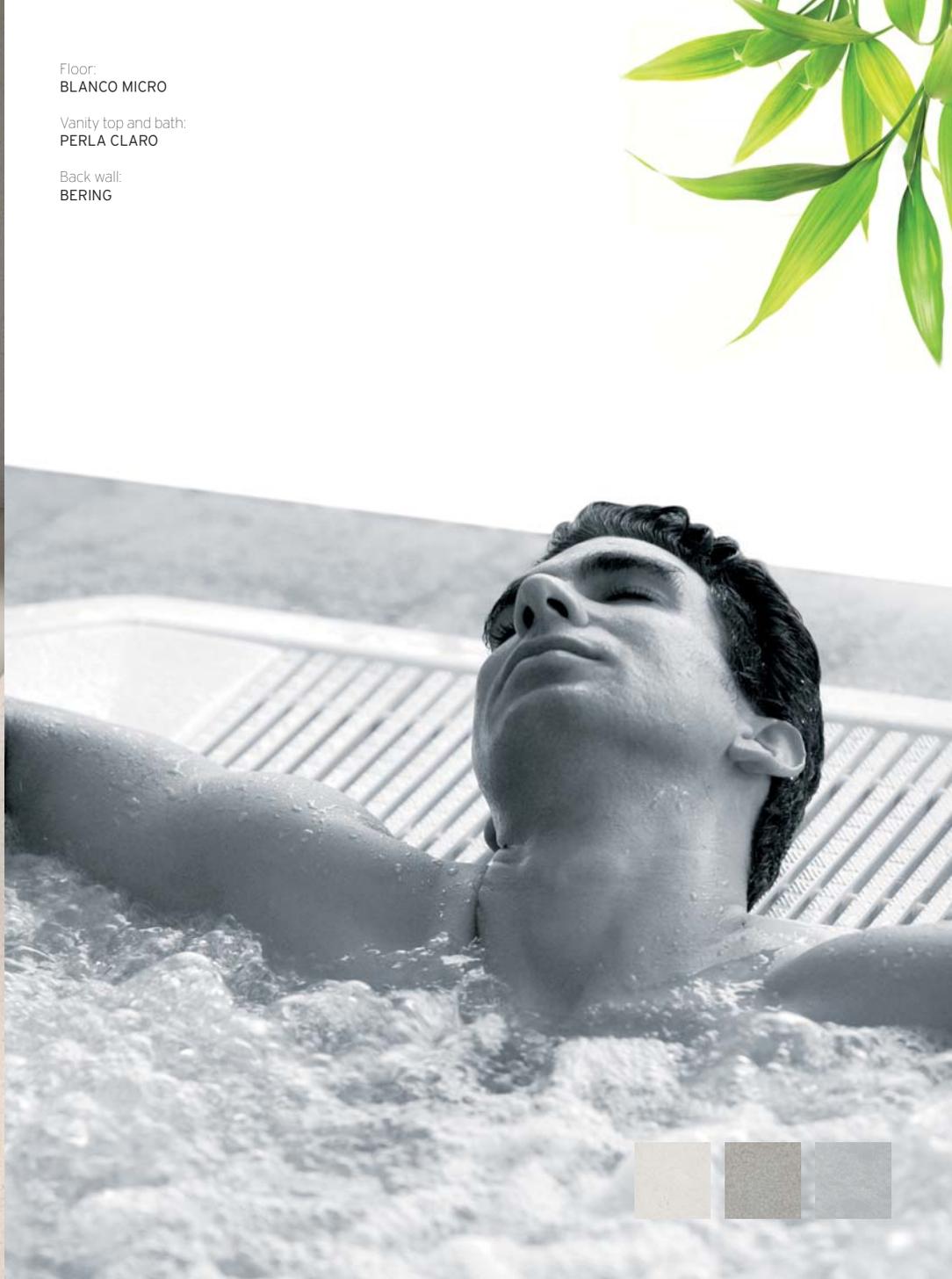




Floor:
BLANCO MICRO

Vanity top and bath:
PERLA CLARO

Back wall:
BERING





Partition wall:
NUBIA FOG

Walls:
CREMA VALENCIA

Floor and vanity top:
CREMA ALTEA







COLOURS

- * POLISHED**
- M MATT**
- A BUSH HAMMERED***
- S SILKEN***
- O OVO**
- F COLOURS AVAILABLE FOR USE ON BUILDING FACADES**



MICRO THASSOS



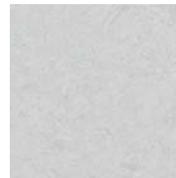
AFIÓN



BLANCO MICRO



FIDJI



WHITE FARAYA



PANAMÁ



CREMA ALTEA



CREMA VALENCIA



* Only available in thicknesses of 20mm and 30mm



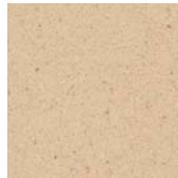
NUBIA FOG
* M A S



BEIGE FARAYA
* M A S



NACARADO
* M A S



MARFIL STONE
* M A S



CARAMELO
* M A S



BERING
* M A S



PERLA CLARO
* M A S

TECHNICAL SPECIFICATIONS



finishes

★ POLISHED, gloss finish.



Ⓜ MATT, matt finish.



Ⓐ BUSH HAMMERED, rough finish.



Ⓢ SILKEN, rough and smooth finishes.



⓪ OVO, egg texture imitation.



Dimensions

STANDARD SIZES

60 x 7 cm

60 x 40 cm

60 x 60 cm

Useful measurement of slab
306 x 123 cm

Standard thicknesses:
12 mm, 20 mm and 30 mm
depending on application and
size.

AVANT-GARDE FORMAT THE EXTRA-LARGE FORMAT

100 x 30 cm

COMPAC THE SURFACES COMPANY
has created a bigger format that
provides some spectacular results.
Consult all lines, colours and finishes
of technological marble available in
AVANT-GARDE format.

Edges



Ref. 01:
ROUNDED EDGE



Ref. 02:
POLISHED BEVEL EDGE



Ref. 03:
COVERED EDGE

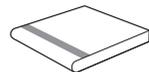


Ref. 04:
BULLNOSE EDGE

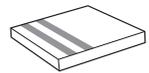


Ref. 05:
OGEE EDGE

Applications with Carborundum® for staircases and ramps



Rounded edge with
1 strip of carborundum



Polished, bevel edge with
2 strips of carborundum

Finishes

- ★ POLISHED**
Gloss finish
- M MATT**
Matt finish
- A BUSH HAMMERED***
Rough finish
- S SILKEN***
Very pleasant smooth and
rough texture
- OVO**
Egg texture imitation

* Only available in 20 mm
and 30 mm thicknesses.

Applications

FLOOR TILES
WALL TILES
STAIRCASES
VANITY TOPS
FRIEZES
DOOR AND WINDOW
FRAMES
COLUMNS
FIREPLACES
FURNITURE, ETC

- F USE ON BUILDING
FACADES**

**NOT RECOMMENDED
FOR KITCHEN
WORKTOPS**

Principal advantages



Minimal water
absorption



Lighter: savings in
transport and easy to
fit



Highly resistant to
impact and deflection



Resistance to fire, rated
as A2 (Euroclass)



Fitting with glue mortar



Low maintenance
costs and easy to clean



Large format sizes and
made-to-measure pieces



Technological marble:
resins and other binding
agents are added to
91-96% natural marble



Polish after intensive
use to regain the original
sheen

Measuring

Templates

Taking measurements for some
pieces can be difficult. Therefore
we recommend the use of templates
in order to guarantee correct
production of each piece.

Staircases

For staircases we recommend
sending templates for making the
following pieces:

- Intermediate landing treads.
- Special starting step of a staircase.
- Hollow with light (send light or
template of the section).

Cladding

For cladding on irregular circular
pillars, send a negative template of
the section.

Transport

Slabs are loaded onto lorries using
a crane, positioning the group of
slabs leaning lengthways along the
lorry. The resting supports of the
pieces imitate a double "A" shape
secured at the base. To avoid
adjacent faces suffering damage
during transport, the material is
protected with polyethylene
sheeting, and protective wax strips.

For container transport the slabs
are positioned upright and secured
by means of special pallets for slabs.
It is also possible to use the same
system as for lorry transport.

Packing list

SIZE (cm)	Thickness (mm)	Weight x m ² (kg)	Pieces x box	m ² x box	kg x box	Boxes x pallet	m ² x pallet	Weight pallet	Pallets x 20' container
60 x 40	12	31	4	0.96	30	28	26.88	833	29
60 x 60	12	31	4	1.44	45	28	40.32	1,250	19

BOARD (cm)	Thickness (mm)	Weight x ML (kg)	Pieces x box	ML x box	kg x caja	Boxes x pallet	ML x pallet	Weight pallet
60 x 7	12	2	15	9	20	56	504	1,200

SLABS x 20' CONTAINER

Thickness	20 mm	30 mm
Slabs	102	64

The weight of the cardboard on the boxes and the wood of the pallets are included.
Approximate weights.

Colours

	POLISHED *	MATT M	BUSH HAMMERED A	SILKEN S	OVO O	FACADES F
MICRO THASSOS	■	■	□	□	■	□
AFIÓN	■	■	□	□	■	□
BLANCO MICRO	■	■	□	□	■	□
FIDJI	■	■	□	□	■	□
WHITE FARAYA	■	■	□	□	■	
PANAMÁ	■	■	□	□	■	
CREMA ALTEA	■	■	□	□	■	□
CREMA VALENCIA	■	■	□	□	■	□
NUBIA FOG	■	■	□	□	■	
BEIGE FARAYA	■	■	□	□	■	□
NACARADO	■	■	□	□	■	□
MARFIL STONE	■	■	□	□	■	□
CARAMELO	■	■	□	□	■	□
BERING	■	■	□	□	■	□
PERLA CLARO	■	■	□	□	■	□

- All thicknesses
- Only available in 20 mm and 30 mm thicknesses
- Can be used on building facades

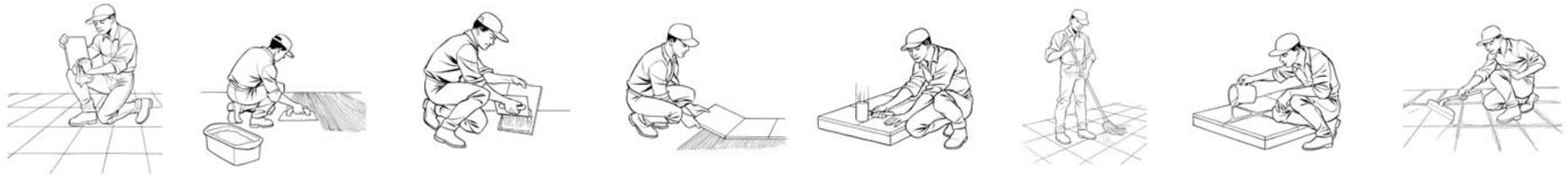
Fitting instructions and maintenance.

Fitting of floor tiles with glue mortar on technological marble surfaces.

The instructions of the glue mortar manufacturer should be followed for water addition and mix preparation time. We recommend the use of CLASS C2FCement based adhesives (prEN 12004) as per the European Standards (cement adhesive (C), improved (2)) type F55 Cermono Rápido by CERCOL, Pegoland Fast fluido by Puma Group, Granirapid by MAPEI, among others. There are brands that specialise in special material for grouting expansion joints.

If fitting in areas where the material will be subject to high thermal loads, Class R2 glue mortar should be used. To fit on special surfaces (ceramics and plaster) a suitable bonding agent should be chose for that surface.

Not meeting these fitting and maintenance instructions exempts the manufacturer from all liability through improper or imperfect fitting.



Fitting directions

A In order to fit technological marble, it must be taken into account that the humidity contents of the surface must be below 2%. If humidity is above this value, suitable waterproofing of the surface will be necessary.

B Both the tiles and the floor must be clean, dry and dust free. Any grease, paint or pollutants must be cleaned off. The planimetrics of the surface must not report any variations (sand + resin + cement).

C Level the floor with a levelling paste. Spread the glue mortar on the floor, using a serrated float, to a thickness of approximately 10 mm.

D Spread glue mortar on the reverse side of the tile using a serrated float to a thickness of 6 to 8 mm (double gluing).

E Fit the tiles one after the other leaving expansion joints every 40 m².

Always leave a 5 mm perimeter expansion joint and at least 2 mm between tiles.

When laying tiles outdoors, the minimum gap between tiles should be at least 5 mm and partition joints must be carried out every 30 square metres. When fitting larger sized tiles than standard, the gaps must be increased in proportion to the size of the tiles.

F Tap the tiles using a rubber mallet so that it is completely affixed to all the glue mortar.

G Clean the base mortar or any other material that oozes between the joints using a moist mop, before grouting.

H Apply the grout using white cement grout (BL V 22.5 UNE 80305 96) 24/48 hours afterwards. To fill in joints between tiles use grout cement in accordance with the Standard UNE EN 13888. There are coloured cement grouts available on the market that can be used for this purpose.

I Completely clean off any grout remaining on the tiles immediately.

DO NOT LAY TILES WITHOUT SPACING GAPS

Maintenance instruction

Daily

Clean off any sand or grit from transit by vacuuming. Clean using a surface dust mop.

Clean any stains using a damp cloth without any detergent.

Periodically

Application by means of a Nilfisk BB.2N or Caselli x-2 vitrified waxing machine followed by a coat of shine and finish with Nilfisk BB.3 or similar.

Depending on the frequency of use and the state of preservation, de-layering and de-scaling can be carried out using a disk polisher comprising aluminium filings, successively applying the following coats: de-layering and de-scaling with Nilfisk BB.1 or Caselli x-1. Vitrify, shine and finish as described previously.

Technical card

CHARACTERISTICS	TEST METHOD	UNITS	TYPICAL VALUES
REACTION TO FIRE (EURO CLASSES)	EUROCLASSES UNE-EN-ISO 9239-1:2002 and ISO 1716:2002	EUROCLASSES	A2fl s1
THERMAL EXPANSION COEFFICIENT	UNE EN 14617-11:2006 Agglomerated stone test methods. Determination of linear thermal expansion coefficient.	°C-1	14.8-26.4x10e-6
RESISTANCE TO DEFLECTION	UNE EN 14617-2:2005 Agglomerated stone test methods. Determination of flexural strength.	MPa	24.3 -30.1
RESISTANCE TO IMPACT	UNE EN 14617-9:2005 Agglomerated stone test methods. Determination of impact resistance.	J	3-6
SLIP RESISTANCE	UNE EN 14231:2004 Natural stone test methods. Determination of slip resistance by means of the pendulum tester.	USRV	Polished: 5-6 wet / 44-60 dry Matt: 10 wet / 55 dry Bush hammered: 48 wet / 80 dry Silken: 21 wet / 55 dry
WATER ABSORPTION	UNE EN 14617-1:2005 Agglomerated stone test methods. Determination of apparent density and water absorption.	%	0.041-0.105
RESISTANCE TO COMPRESSION	UNE EN 14617-15:2005 Agglomerated stone test methods. Determination of compression resistance.	MPa	130.6-137.0
APPARENT DENSITY	UNE EN 14617-1:2005 Agglomerated stone test methods. Determination of apparent density and water absorption.	g/cm ³	2.45 - 2.49
RESISTANCE TO ABRASION	UNE-EN 14617-3:2005 Natural stone test methods. Determination of abrasion resistance.	mm	33-36
CHEMICAL RESISTANCE	UNE EN 14617-10:2005 Agglomerated stone test methods. Determination of chemical resistance.	C1 C4	Acids: C1 (Materials that maintain less than 60% of the reference reflection value after 8 hours) Alkalis: C4 (Materials maintain at least 80% of the reference reflection value after 8 hours)
HARDNESS TO SCRATCHING	UNE EN 101 Ceramic tiles. Determination of hardness to surface scratching as per MOHS.	MOHS	3 - 4

The values provided in this technical sheet are indicative and are therefore non-binding. For further information, please contact our technical department.



Certifications

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COMPAC technological marble is a high quality product that is capable of overcoming the highest technical and functional demands of professionals and end users alike. It is also a product that has been awarded the **Greenguard Indoor Air Quality** stamps that certify contribution to creating health indoor environments since no volatile emissions are released and **Greenguard Children & Schools** mark that endorses the use of these products in schools and other buildings where children spend long periods of time.



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