

MARIUS AURENTI



M1200
TERRASSE

18,8 kg
41,45 lb

morpheo

3-component kit for outdoor flooring:

- Morpheo M1200 Terrasse Millimetric Mortar
- Morpheo LPA Water-Based Polymer Binder
- Morpheo BLUSH Mineral Color

Marius Aurenti decided to unify the messaging and develop a brand name for its decorative mortars.

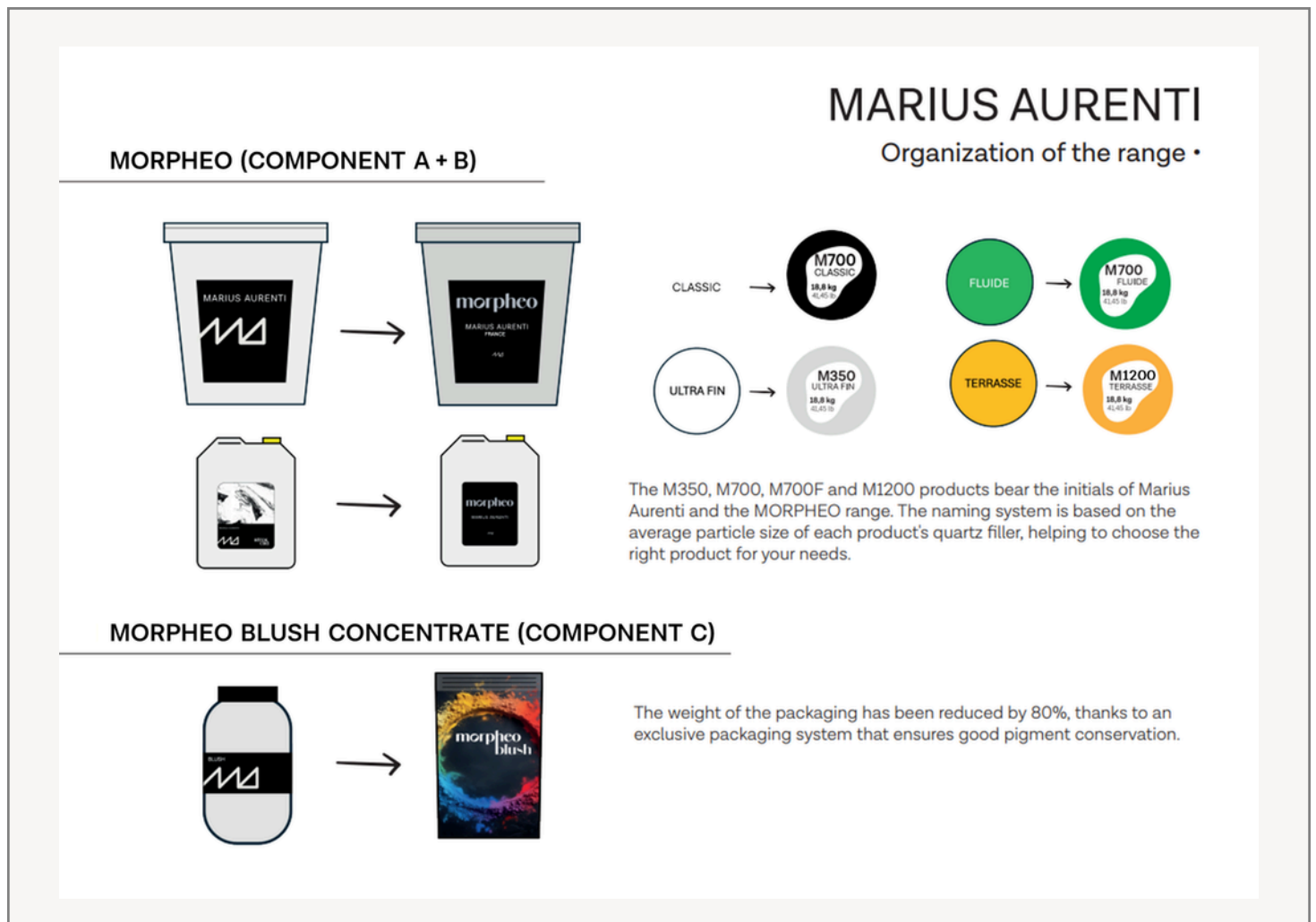
This name evokes the ability of these products to metamorphose a place, to give form to matter, and to transform spaces.

The new product line name is MORPHEO by Marius Aurenti.

This timeless, almost ancient sound carries within it the notion of metamorphosis. Etymologically, "morphé" means "the form", Morphéo is "he who gives birth to form".

Morpheo represents the ability to transform, metamorphose, and innovate in architecture.

With Morphéo, the buckets will contain between 50 and 80% recycled plastic.



High-performance, millimetric hydraulic mortar for creating a "Microcement" type coating for decorating outdoor floors (terraces, pool decks, walkways, and driveways). Its textured surface provides an anti-slip function.

This concrete is an innovation manufactured in France.

It exhibits excellent chemical, mechanical, adhesion and waterproofing resistance.

It is available in 87 colors (Morpheo Blush Mineral Color Concentrate).

This product constitutes the mass coat of the Morpheo M1200 Terrasse system (refer to the System Sheet on the following page).

PACKAGING

3-component kit

- Morpheo M1200 Terrasse White Base – Component A / 18.8 kg
- Morpheo LPA Binder – Component B / 5.32 kg
- MORPHEO BLUSH Mineral Color / 1.2 kg

The 7 key advantages of Marius Aurenti Microcement:

- No specific joints required
- 15-year guarantee against cracking
- A range of high-resistance varnishes from matte to glossy
- Textures ranging from smooth to anti-slip
- 87 mineral colors
- 2 mm thick
- 44.1 MPa (approx. 6,396 psi)



FEATURES

The Morpheo M1200 System includes:

- a mass layer
- a finishing coat

Refer to each of their respective Technical Data Sheets and Safety Data Sheets.

	SUPPORT	TRADE NAME	NUMBER OF LAYERS	TOTAL CONSUMPTION
MASS LAYER	/	Marius Aurenti M1200 Terrasse Millimetric Decorative Mortar	2 couches	4 kg/m ²
PROTECTIVE LAYER		ITP Terrace & Pool Impregnation	2 couches	200 to 300 g/m

The Morpheo M1200 system is available in 87 colors from the IRIS Marius Aurenti color chart.



The diversity of substrates and their condition necessitates specific preparation and the use of primers. Consult our Technical Data Sheets. Substrates must be sound, flat, dry, rigid, cohesive, stable, and clean (in particular, free of grease, oil, or laitance). They must be prepared in accordance with current building codes (DTU). It is important that the substrate exhibits good cohesion and no cracks. Active cracks and expansion joints will be left open and not covered. They will be treated with Marius Aurenti MS Polymer Color Sealant after the Classic Microcement application. Concrete and screed substrates must be at least 28 days old. They must be flat, cohesive, clean, and have a moisture content of less than 4%, or 0.5% for liquid screeds based on calcium sulfate.

A) CONCRETE SLABS, CONCRETE FLOORS OVER CRAWL SPACES AND NEW CONCRETE FLOORS POURED ON STEEL DECKING

- Concrete slabs and concrete floors over crawl spaces must be executed in accordance with standard NF P 11-213 (DTU 13.3); they must be reinforced in accordance with the same DTU.

B) SUBSTRATES IN SWIMMING POOLS AND BASINS

In swimming pools and basins, the preparation of the substrates is specific, as are the application methods; refer to the Marius Aurenti swimming pool guide.



COLOR AND MIXING PRECAUTIONS

To ensure color consistency, for the same project, use the same batch number of component A and the same batch number of Morpheo Blush Mineral Color Concentrate.

Morpheo Blush Mineral Color Concentrates contain pigments, fillers, and additives in varying proportions to achieve a consistent rheology (fluidity and consistency) in the final product. Mixing the concentrates together is strictly prohibited.

Morpheo M1200 bases are semi-finished materials. It is essential to add a concentrate to ensure the full properties of Morpheo M1200 Terrasse and the stability of the formula. Even in white, the addition of Morpheo Blush Mineral Color Concentrate in white is mandatory. Using the base alone without the concentrate alters the nature of the product and reduces the chemical and mechanical performance of the system.

The product must be used by strictly mixing the 3 components.

Never add water.

USES

Do not apply on solid wood, flexible wood flooring, plastics and textiles, terracotta and terracotta floor tiles.

STORAGE AND SAFETY

Shelf life: 1 year in its original unopened packaging, protected from sunlight and frost, at a temperature between +5°C and 25°C, ideally between 15°C and 20°C. Check the "best before" date on the packaging before use. Once opened, the product must be used within 7 days.

Use the appropriate personal protective equipment described in the Safety Data Sheets.

For more information regarding safety, please refer to the Safety Data Sheet.



The preparation is carried out using a dry mix (allows the kit to be used in several stages) or a wet mix (complete use of the kit).

DRY MIX

In the case of a dry mix, always mix the base and concentrate thoroughly before proceeding with any possible division.

- Roll the base bucket to aerate and soften the material
- Open the base bucket and make a slight indentation in the center of the base
- Open the pouch of Color Concentrate
- Pour the concentrate into the center of the base bucket
- Secure the bucket with your feet and mix the base and concentrate (ideally with a mixer for pasty products, contact us for prices)
- Immerse the mixer and gradually increase the speed

Continue mixing using straight and angled vertical and lateral movements to thoroughly blend the contents. Pay particular attention to the edges at the bottom of the container to ensure these hard-to-reach corners are not missed. For your first few mixes, we recommend pouring the blended contents into a bucket of the same size to visually check the quality of the mixture and repeat it if necessary. The mixing time should be at least 1 minute.

- Add the LPA component B (liquid) to the prepared quantity of powder: base (component A) + Morpheo Blush Mineral Color Concentrate, perfectly mixed according to the instructions in the table below:

COMPONENT B (LIQUID LPA) IN KG	COMPONENT A + MORPHEO BLUSH MINERAL COLOR CONCENTRATE (COLORED POWDER) IN KG	READY-TO-APPLY PRODUCT IN KG
0,21	0,79	1,00
0,42	1,58	2,00
0,63	2,37	3,00
1,26	4,74	6,00
2,66	10,00	12,66
5,32	20,00	25,32

Note: the preservation of the materials once mixed dry is not altered by mixing if the buckets (base + concentrate) are closed and stored under the normal conditions recommended.

WET MIX

- Pour the liquid portion (LPA component B, 5.32 kg) into a clean, empty bucket
- Shake the jar of Morpheo Blush Mineral Color Concentrate and open it
- Pour the Morpheo Blush Mineral Color Concentrate into the liquid
- Secure the bucket and mix at a gradually increasing speed until the liquid and concentrate are homogeneous
- Add the powder (Component A) into the liquid.
- Mix mechanically for 2 to 3 minutes until a homogeneous mixture is obtained.

Never add water



HUMIDITY

The application of the Morpheo Marius Aurenti System must be carried out in an ambient relative humidity range of between 30% and 80% except for varnishes which require a humidity range above 40% and below 80% ideally between 50% and 65%.

Humidity conditions must be maintained for at least 48 hours after application of the last coat.

Protect from wind, direct sunlight, rain, frost, and the surrounding flora and fauna during application and curing of the components.

Before any application, check the moisture content of the substrate (maximum 4% moisture and $\leq 0.5\%$ for liquid screeds based on calcium sulfate).

TEMPERATURE

Before beginning any application, it is essential to check the substrate temperature and the ambient temperature. The substrate temperature must be between $+5^{\circ}\text{C}$ and $+25^{\circ}\text{C}$ (ideally between 15°C and 20°C). It must be at least 3°C above the dew point.

The Morpheo Marius Aurenti System can be applied at ambient temperatures between 5°C and 25°C for Microcement and between 15°C and 25°C for varnishes, at least 24 hours before the first application and at least 24 hours after application of the last coat.

Low and high temperatures will respectively slow down and accelerate the setting process. Application should not be carried out in freezing weather or extreme heat. Provide heating or cooling systems if the worksite requires them.

APPLICATION EQUIPMENT

Trowel, notched comb 6 mm triangular teeth, (first coat only).

Perfect'Liss 35cm smoother or stainless steel or plastic 200mm smoother.

Use a sponge trowel or mason's sponge (dry) for a non-slip finish.

Clean the tools with water.

SLOPE

Given the obvious strong climatic constraints, we recommend carefully working on the sub-base, the mesh, the joints and the quality of the concrete in order to avoid substrate cracks that cannot be repaired.

A minimum slope of 2% towards the outside is recommended to drain rainwater.

The use of additives such as plasticizers, fibers and curing products is essential to ensure a good quality substrate for Microcement.

A smooth finish during the pouring process will be adapted to the future millimetric Microcement on top.

Morpheo Marius Aurenti Microcement consists of a two-component mortar applied in a 2 mm thickness.

It is important to mechanically sand the slab and check for the presence of flash

Apply a first coat of Morpheo Microcement with a consumption of approximately 3 kg/m² (approximately 1.5 mm thick) using a trowel or smoother.

To regulate the thickness, it is possible to apply the first layer using a 6 mm triangular-notched trowel and then immediately smooth it with a trowel until the triangular-notched trowel's grooves disappear completely.

In this case, the smoothing must be done immediately, while the microcement is still fresh. This first layer determines the final thickness and aesthetic effects.

Before applying the second coat and 24 hours after applying the first coat (at 20°C, 60% relative humidity), it is possible to sand the surface to eliminate decorative effects or excessive irregularities (40 grit) using a single-disc machine (or an orbital sander), then thoroughly dust mechanically.

Apply the second coat at a rate of approximately 1 kg/m², using a stainless steel trowel or smoothing tool. This second coat determines the final texture and appearance of the coating. It is important to note that a stainless steel application tool can leave dark marks (especially on light colors). A plastic tool may be preferable.

The second coat is finished with a more or less rough texture to enhance the anti-slip properties of this mortar, particularly on frequently wet surfaces. A rubbed or textured finish, achieved with a dry sponge, is suitable for areas where bare feet circulate, preventing slips and falls.

If anti-slip properties are not required, after 24 hours of drying (at 20°C), optionally sand the surface (80 grit then 120 grit) using an orbital sander (or a floor scrubber) and then vacuum to remove dust. Corners should be sanded by hand. The intensity of the sanding will determine the final surface finish (textured or smooth) and highlight the material's texture.

If the surface is deemed satisfactory and compliant, proceed with the application of the finish. Two days (20°C, 60% RH) after applying the mortar, without prior sanding, apply two coats of ITP Terrace & Pool Impregnation. This finish provides a satin appearance and slightly darkens the colors (wet look).

Exterior finish:

- ITP Terrace & Pool Impregnation

CONSUMPTION

USE	DETAILED DESCRIPTION	MICROCEMENT CONSUMPTION / M ²	THICKNES S	COVERAGE PER 1 KIT + BLUSH
Outdoor flooring	Outdoor paving	4 kg/m ² for 2 coats	approx. 2 mm	approx. 6.5 m ²

DRYING TIME AT 20°C AND 60% RELATIVE HUMIDITY

OPEN TIME	40 minutes
DRY TO THE TOUCH	4 hours
BETWEEN COATS	minimum 24 hours
FULL CURE	2 days but mechanical resistance reached after 28 days

The surface must not be exposed to all stresses before the treatment system has completely dried, i.e. 7 days at 20°C and 60% relative humidity.

Between 2 and 7 days, light traffic is permitted with the following precautions: use of breathable micro-protective tarpaulins such as Landolt Floorliner Vapor, and wear socks or overshoes. No exposure to water or chemicals is allowed, and avoid rubbing or scratching furniture. Applying adhesives to the floor coverings is prohibited.

Do not lay down carpet for 7 days.

IMPORTANT NOTE:

The maximum hardness of the Morpheo Marius Aurenti System is achieved after 28 days of drying.

The ground must be accepted immediately after the completion of the work. The newly installed Morpheo Marius Aurenti system will be protected during work performed by other trades using protective materials that allow for ventilation (see ITP Terrace & Pool Impregnation Technical Data Sheet).

Time before the first wet cleaning: minimum 3 days after the installation of the ITP.



Based on Test Reports from CSTB (Scientific and Technical Centre for Building), Test Reports from LNE (National Laboratory for Metrology and Testing) and Test Reports from the Marius Aurenti Laboratory.

- CSTB No. RA12-0208
- CSTB No. RA20-0353
- CSTB No. R2EM-11-26022578
- CSTB No. R2EM-SIST-14-26047471
- CSTB No. ES541200113
- CSTB No. DSR-SIST-22-26085256
- LNE No. CX 1600936

The company Matières Marius Aurenti declares that the Marius Aurenti Systems: Morphéo M700 Classic Microcement and Morphéo M700 Fluide Microcement with Marius Aurenti finishes meet the following performance standards, according to the implementation recommendations.

Flexural strength (NF EN 13892-2)	16,8 N/mm ²
Compressive strength (NF EN 13892-2)	44,1 N/mm ²
Puncture resistance (NF EN 13892-6)	293,5 N/mm ²
Surface hardness (NF EN 13892-6:2003)	119,1 N/mm ²
Impact resistance 1kg-200 cm (NF EN ISO 6272)	No cracks
Adhesion strength (NF EN 13892-8:2003)	2.5 N/mm ² Cohesive rupture
Slip resistance (Maximum values achieved related to application methods) (XP P05-010 and XP P05-011)	PN 24 PC 20
Water permeability (NF EN 1062-3:2003)	0.08 kg/m ² .h0.5

CE conformity marking, as defined by Directive 93/68/EEC:


OCEAN Marius Aurenti 3 rue Brillat Savarin Rovaltain TGV Nord BP 21034 26958 Valence cedex 9 FRANCE 17 IN 13813
MA's Microcement Compressive strength: C40 Flexural strength: F15 Bond strength: B2.0

MARIUS AURENTI

For 40 years, Marius Aurenti has been innovating to improve the performance of decorative materials and the sensations they provide.

A mineral and plant aesthetic, close to Nature, to which our works pay homage and for which our environmental commitment is total.

MA's is also present, through its training and support, alongside quality French craftsmanship which, every day in our workshops as well as in the field, strives to make each place unique, beautiful and timeless.



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