

MARIUS AURENTI



M700F
FLUIDE
18,8 kg
41,45 lb

morpheo

- Morpheo M700F Fluide Decorative Mortar
- Morpheo LPA Water-Based Polymer Binder
- Morpheo BLUSH Mineral Color

3-component flooring kit.
It allows you to create 6.5 m² of flooring (4 kg per m²).

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

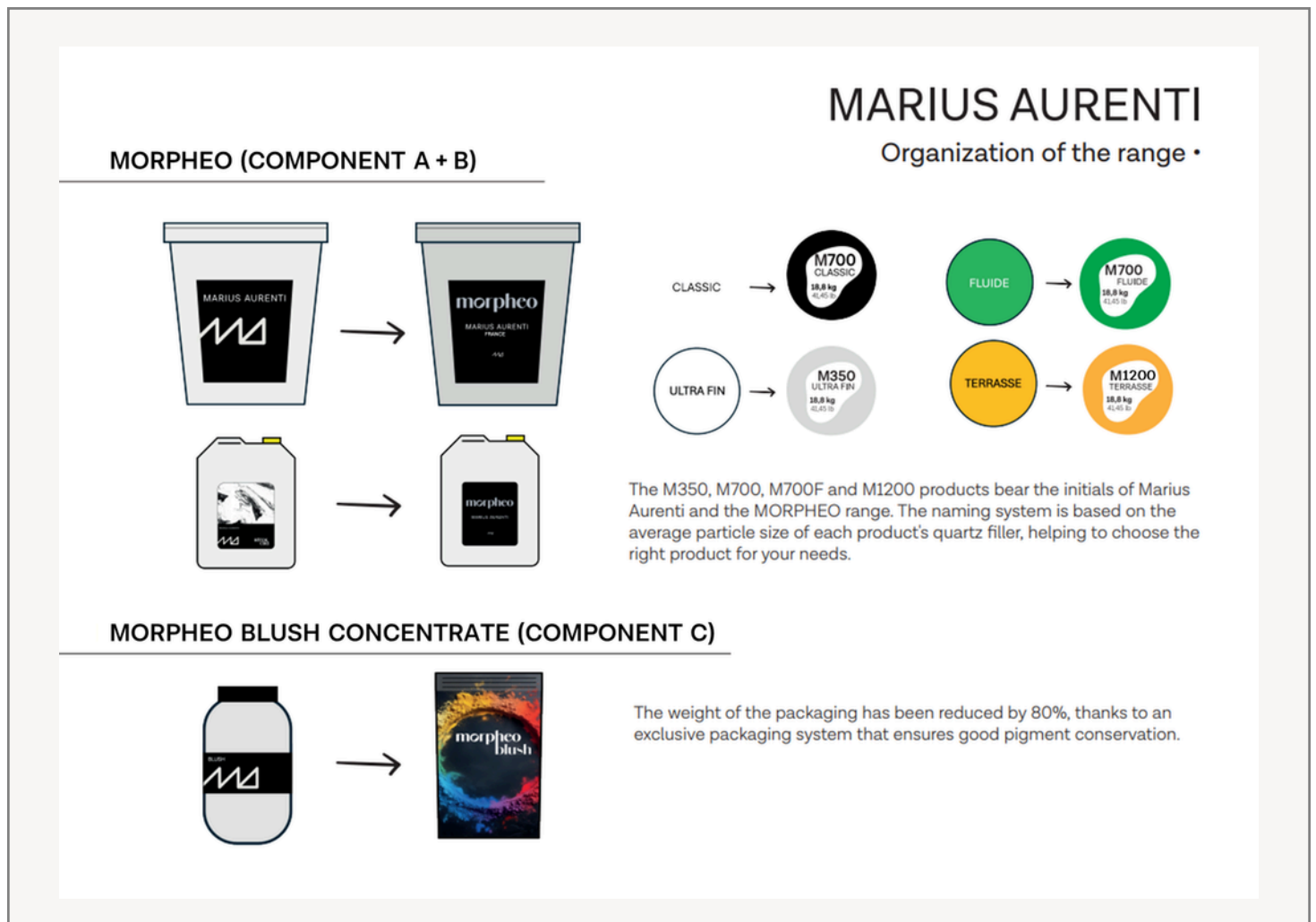
This name evokes the ability of these products to metamorphose a place, to give form to matter, and to transform spaces.

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 decorative microcement intended for creating a Microcement type coating for interior floor decoration.

This product, created more than 25 years ago, was the world's first millimeter-thick microcement, a French innovation that has already allowed hundreds of thousands of square meters to be created.

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

It is available in 87 colors (MORPHEO BLUSH Mineral Color).

This product allows for the creation of finished floors with subtle variations and a closed grain (see the System Data Sheet on the following page). The appropriate topcoat (varnish or wax) should be selected for the intended use and location.

A maintenance guide presents recommendations according to the finishes and uses.

PACKAGING

3-component kit

- Morpheo M700F White Base Fluid 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:

- *Without a specific seal*
- *15-year guarantee against cracking*
- *A range of high-resistance varnishes from matte to glossy*
- *Smooth, non-slip textures*
- *87 mineral colors*
- *2 mm thick*
- *44.1MPa*



FEATURES

The Morpheo M700F Fluide + Morpheo BLUSH Mineral Color system includes:

- a base coat
- a finishing coat
- a finish

Refer to the respective Technical Data Sheets and Safety Data Sheets.

	SUBSTRATE	TRADE NAME	NUMBER OF LAYERS	TOTAL CONSUMPTION
MASS LAYER	/	Morpheo M700 Classic Decorative Microcement	1 layer	2 kg/m ²
FINISHING COAT		Morpheo M700F Fluide Decorative Microcement	1 layer or 2 layers	1 kg/m ² or 0.5 kg/m ²
PROTECTIVE LAYER		Hydrolak HL8 or IF3 Fixative	3 layers or ≥ 3 layers	250 to 300 g/m ² or 300 to 430 g/m ²

The Morpheo M700F Fluide Millimetric Decorative Mortar System is available in 87 colors from the IRIS Marius Aurenti color chart.

The acceptable substrate is Morpheo M700 Classic millimeter decorative mortar, applied in one layer at a consumption of 2kg/m².

This surface must be dry, clean and flat.

COLORS AND MIXTURES

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

MORPHEO BLUSH Mineral Colors 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 M700F Fluide bases are semi-finished materials. It is essential to add a concentrate to ensure the full properties of the Morpheo M700 Classic Microcement and the stability of the formula. Even in white, the addition of MORPHEO BLUSH Mineral Color 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

Use in saunas and steam rooms is excluded.

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
- Shake the jar of concentrate and open it
- 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 blender 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 component B (liquid) to the prepared quantity of powder: base (component A) + MORPHEO BLUSH Mineral Color, perfectly mixed according to the instructions in the table below:

COMPONENT B (LIQUID) IN KG	COMPONENT A + MORPHEO BLUSH MINERAL COLOR (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 recommended conditions.

WET MIXTURE

- Pour the liquid portion (component B, 5.32 kg) into a clean, empty bucket
- Shake the jar of MORPHEO BLUSH Mineral Color and open it
- Pour the MORPHEO BLUSH Mineral Color 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 M700F Fluide 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 absorption 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 $+25^{\circ}\text{C}$ (ideal temperature: $> 15^{\circ}\text{C}$ and 20°C). It must be at least 3°C above the dew point.

The Morpheo M700F Fluide 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

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

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

Clean the tools with water.



The Morpheo M700F Fluide Decorative Microcement consists of a two-component mortar applied as a finishing layer.

Apply a first coat of Morpheo M700 Classic with a consumption of approximately 2 kg/m² using a 6 mm notched comb and then smooth immediately with a trowel until the notched comb's striations 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.

24 hours after the application of this layer (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.

Next, apply two coats of Morpheo M700F Fluide at a consumption rate of 1 kg/m² per coat, using the Parfait'liss trowel. The final coat determines the final texture of the coating and its aesthetic appearance.

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.

After 24 hours of drying (at 20°C, 60% relative humidity), sand the surface (40 grit) using a single-disc machine (or an orbital sander) then mechanically remove all dust. The intensity of the sanding will finalize the surface appearance (textured or smooth) and bring out the material effects.

If the surface is deemed satisfactory, proceed with the application of the finishes.

Three possible finishes (refer to the Technical Data Sheets for these products):

- IF3 Fixative: Matte or Silky Matte
- Hydrolak HL8

CONSUMPTION

SUNS	4 kg/m ² for 3 layers	total thickness 2 mm
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DRYING TIME AT 20°C AND 60% RELATIVE HUMIDITY

OPEN TIME	approximately 45 minutes
DRY TO THE TOUCH	4 hours
BETWEEN THE LAYERS	minimum 24 hours
COMPLETE DRYING	2 days, but mechanical resistance is 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 of 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.

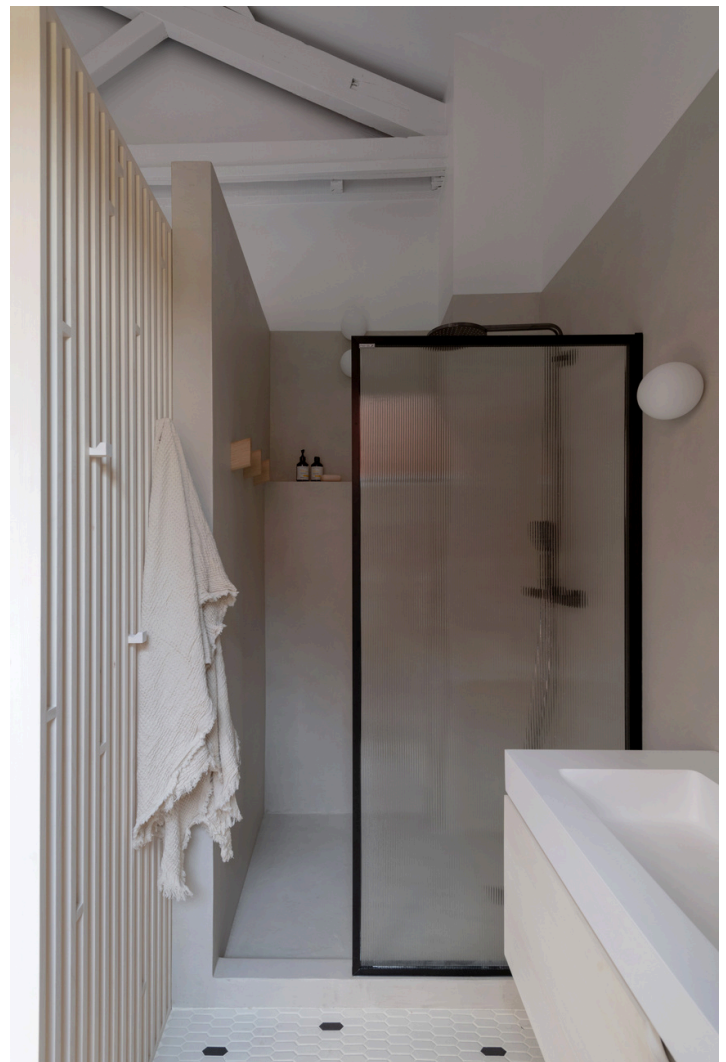
Do not lay down carpet for 7 days.

IMPORTANT NOTE:

The maximum hardness of the Morpheo M700F Fluide System is achieved after 28 days of drying.

The floor must be inspected immediately after the completion of the work. The newly installed Morpheo M700F Fluide System will be protected from work by other trades using protective materials that allow for ventilation (see Technical Data Sheet for Hydrolak HL8 Varnish and IF3 Fixative).

Time before the first wet maintenance: minimum 3 days after applying Hydrolak HL8 Varnish or IF3 Fixative.



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: Morpheo M700 Classic and Morpheo M700F Fluide with Marius Aurenti varnish finishes meet the following performance (pages 13-14-15), 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
BCA wear resistance (NF 13892-8:2003)	0,08 mm
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
Fire resistance (NF EN ISO 9239-1, NF EN ISO 13501-1 and NF EN ISO 11925-2)	Bf1-S1 (IF3, Visco n°7 and HR1)
Slip resistance (Maximum values achieved related to application methods) (XP P05-010 and XP P05-011)	PN 24 / PC20 (IF3) PC10 - R10 / PN 18 - B (HL8) VEP 55 dry: 84 VEP 55 wet: 44
Water permeability (NF EN 1062-3:2003)	0.08 kg/m ² .h0.5
Determination of the rolling resistance of a wheeled chair (NF EN 425: 2012) 25 000 cycles, 21°C, 55% HR, Fixatif IF3	Residual traces in the wheel passage area (IF3) No trace (HL8)

STAIN RESISTANCE (NF EN 423:2002)

Index according to NF EN 423	Test result after cleaning
0	Insensible
1	Not very sensitive
2	Sensible
3	Very sensitive

MICROCEMENT + IF3 FIXATIVE

	Exposure time to reagents			
Reagents	5 minutes	2 hours	6 hours	24 hours
Café	0	0	0	0
Tea	0	0	0	0
Peanut oil	0	0	0	0
Vinegar	0	0	0	0
Lemon juice	0	0	0	0
Red wine	0	0	0	0
Demineralized water	0	0	0	0
Sparkling water	0	0	0	0
Shoe polish (black) *	0	0	1 (darkens pores)	1 (darkens pores)
Crushing a cigarette*	1 (yellow stain)	1 (yellow stain)	1 (yellow stain)	1 (yellow stain)
Ammonia 15%	0	0	0	0
Acetone*	3 (white spot)	3 (white spot)	3 (white spot)	3 (white spot)
Bleach - Sodium hypochlorite (12% solution)	0	0	0	0
Hand sanitizer gel (70% ethyl alcohol)	1	2	3 (white spot)	3 (white spot)
Hydrochloric acid (20% solution)	0	0	0	0
Potassium hydroxide (30g/L solution)	0	0	0	0
Ammonium chloride (100g/L solution)	0	0	0	0
Sodium hydroxide (10% solution)	0	0	0	0
Acetic acid (5% solution)	0	0	0	0
Acetic acid (10% solution)	0	0	0	0
Ballpoint pen ink *	3	3	3	3

MICROCEMENT + HL8 VARNISH

	Exposure time to reagents			
Reagents	5 minutes	2 hours	6 hours	24 hours
Café	0	0	0	0
Tea	0	0	0	0
Peanut oil	0	0	0	0
Vinegar	0	0	0	2
Lemon juice	0	0	0	0
Red wine	0	0	0	1
Demineralized water	0	0	0	0
Sparkling water	0	0	0	0
Shoe polish (black) *	0	0	0	0
Crushing a cigarette*	1 (yellow stain)	1 (yellow stain)	1 (yellow stain)	1 (yellow stain)
Ammonia 15%	0	0	0	0
Acetone*	0	0	0	0
Bleach - Sodium hypochlorite (12% solution)	0	0	0	0
Hand sanitizer gel (70% ethyl alcohol)	0	0	1	2
Hydrochloric acid (20% solution)	0	0	0	1
Potassium hydroxide (30g/L solution)	0	0	0	0
Ammonium chloride (100g/L solution)	0	0	0	0
Sodium hydroxide (10% solution)	0	0	0	0
Acetic acid (5% solution)	0	0	0	0
Acetic acid (10% solution)	0	0	0	2
Ballpoint pen ink *	3	3	3	3

(*) : Study carried out on a panel of 12 recognized varnishes from the microcement market.

From 2 hours of exposure:

Between 85% and 95% of varnishes on the market show stains when exposed to vinegar or acetic acid (10% solution).

After just 5 minutes of exposure:

Over 65% of varnishes on the market show acetone stains. Over 75% of varnishes on the market show cigarette burns.
100% of the varnishes tested are sensitive to ballpoint pen ink.

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
Marius Aurenti Microcement Reaction to fire: Bf1S1 Compressive strength: C40 Flexural strength: F15 Abrasion resistance: AR1 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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