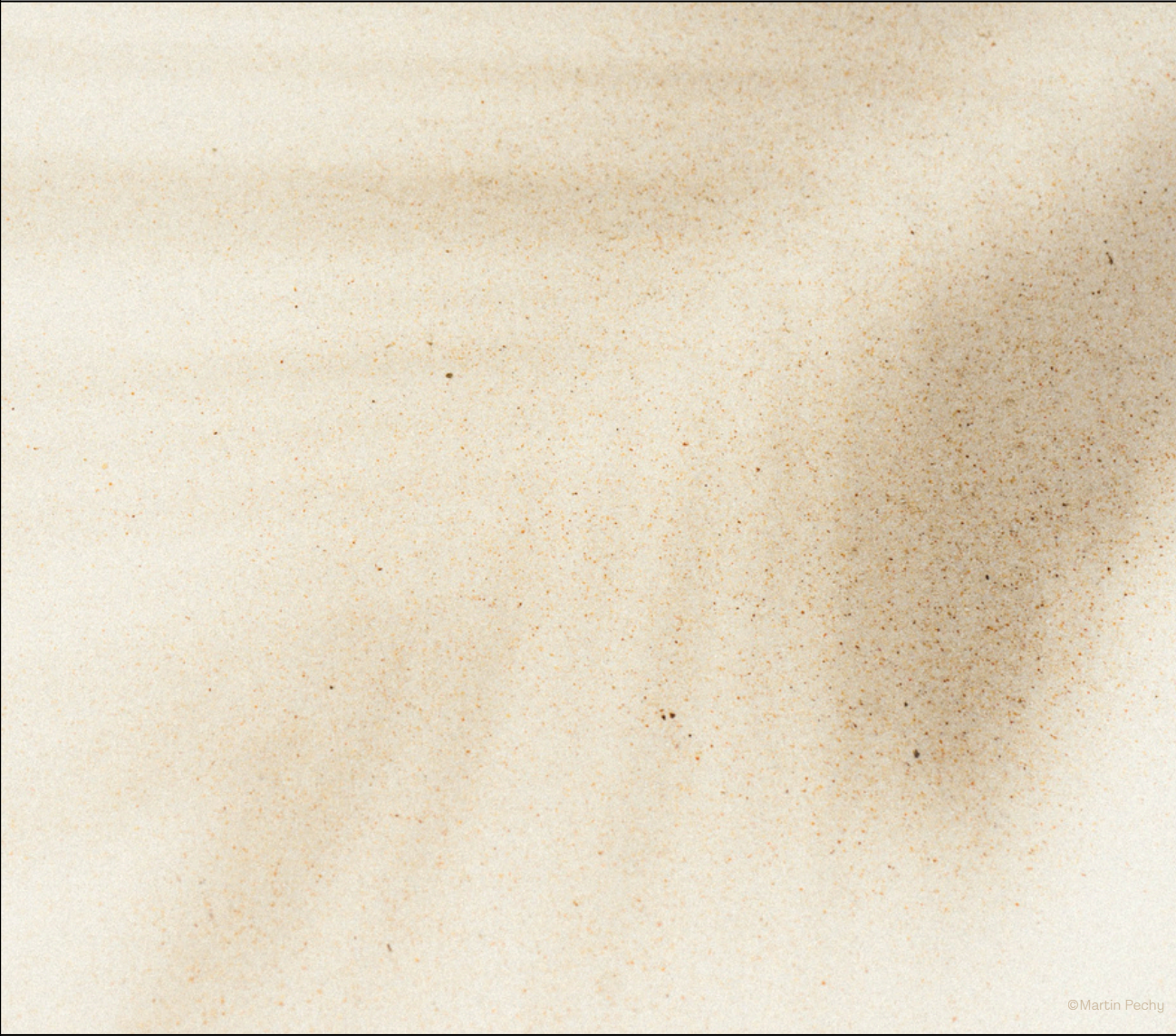


MARIUS AURENTI



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TECHNICAL DATA SHEET
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EPX2 SUPERIOR PRIMER

Substrate preparation

AREAS OF USE

Preparation of surfaces intended to receive a decorative coating such as Microcement or epoxy resin. For indoor use only.

COMPOSITION

Two-component epoxy primer (resin part and hardener part).

PROPERTIES

Excellent adhesion, good chemical insulation, no shrinkage, use as a sand mortar to compensate for a small difference in level (ideal for tile joints).

PACKAGING

1 kg (0.667 kg of resin + 0.333 kg of hardener)
7.5 kg (5 kg resin + 2.5 kg hardener)
and 30 kg (20 kg resin + 10 kg hardener)

SUBSTRATE AND SUBSTRATE PREPARATION

Indoor use: Concrete, mortar, chipboard, aerated concrete, plasterboard, tiles, etc. The substrate must be sound, dry, cohesive, and clean. Outdoor substrates are excluded.

The surface will be cleared of any treatment layer that may prevent the epoxy from adhering, including dust, dirt, oil, grease, waxes, paints, cleaning and maintenance products, etc.

The slabs and screeds must be at least 28 days old (according to DTU, to be checked with the screed layer or the mason) and freed from surface carbonations by physical or chemical treatment.

It is essential to carry out a mechanical diamond surfacing operation to roughen the surface and open its porosity. It is necessary to check the residual moisture content of the substrate (4% and < 0.5% in the presence of an anhydrite screed), as well as to test the surface hardness.

WEDI shower tray supports are permitted. Check that they have been previously sealed with the WEDI system.

SURFACE PREPARATION IN THE CASE OF EXISTING TILING

A visual and acoustic examination of the support must be carried out according to DTU 54.1.

In the case of tiling, all tiles must be properly sealed and the joints perfectly cohesive and clean. The adhesion of the tiles must be checked by probing.

For surfaces with fewer than 10% defective tiles, the defective tiles must be removed and a sanded epoxy mortar poured in their place. For surfaces with more than 10% defective tiles, the substrate is considered unsound and unsuitable for cladding.

CASE OF TREATMENT OF STABILIZED CRACKS, WITHOUT PROTRUSION, MEASURING BETWEEN 0.3 AND 0.8 MM

REMINDER: Cracking is revealed by wetting the surface. A substrate with cracks wider than 0.3 mm is not compliant and cannot receive a floor coating without repairing the cracks. The company that prepared the substrate must treat these cracks; they may subcontract this work to the flooring installation company.

Cracks with a width between 0.3 and 0.8 mm will be treated as follows:

1. They will be sealed by cutting a V-shaped opening in the crack with an angle grinder, to a depth of 10 mm and a minimum width of 5 mm.
2. This groove will be perfectly dusted by vacuuming, then filled with EPX2 Superior Primer Mortar (EPX2 Superior Primer + SQ10 sand).
3. A biaxial -45/+45 E glass fiber mesh will then be placed over the crack.

Method of laying the mesh:

- Apply 400 g/m² of EPX2 Superior Primer using a 10 mm microfiber roller
- Place the Marius Aurenti biaxial mesh over the crack
- Apply 400 g/m² of EPX2 Superior Primer using a 10 mm microfiber roller

Ensure the mesh is completely embedded in the EPX2 Superior Primer and smooth it with a roller if necessary to remove any air bubbles. Sand thoroughly using SQ10 sand.

Allow to dry completely and then dust off before applying Marius Aurenti Millimetric Decorative Mortar.

Regarding cracks with an opening greater than 0.8mm, or the presence of a misalignment (difference in level) or exceeding 10m linear meters per 100 m², a study must be carried out by a specialized design office to determine the stability of the support and the treatment of these cracks in consultation with the company Marius Aurenti.

COVERAGE

Epoxy levelling compound with reinforcement mesh installed using 4x4mm Marius Aurenti mesh (thickness 2mm to 4mm)

Floor: average consumption: 2.4kg/m² of EPX2 Superior mortar Weight ratio: 1/1: SQ10/EPX2 Superior primer Lay edge to edge, without overlapping the Marius Aurenti mesh strips Sprinkle to refusal with SQ10 or SQ20 sand to create a mechanical bond to the support: consumption 2kg/m².

On tiles, the minimum thickness of the EPX2 Superior mortar is 2mm.

Wall (refer strictly to the Gelling Agent Technical Data Sheet)

Epoxy screed or leveling mortar for thicknesses greater than 4 mm, or to correct a difference in level or fill holes

These figures are indicative and may vary depending on temperature and relative humidity conditions. A preliminary test should always be carried out.

Epoxy screed for thicknesses between 5 mm and 9 mm

Average consumption: 1.5 - 2 kg/m²/mm of EPX2 Superior mortar. That is, average consumption: 0.15 kg/m²/mm of EPX2 Superior primer and 1.5 kg/m²/mm of SQ40 sand.

Minimum consumption: 0.14 kg/m²/mm of EPX2 Superior primer and 1.36 kg/m²/mm of SQ40 sand.

Maximum consumption: 0.18 kg/m²/mm of EPX2 Superior primer and 1.82 kg/m²/mm of SQ40 sand.
(weight ratio: 10 /1: SQ40 / EPX2 Superior Primer)

Epoxy screed for thicknesses between 10 and 20 mm

Consumption: 2 - 2.5 kg/m²/mm of EPX2 Superior mortar.

Average consumption: 0.20 kg/m²/mm of EPX2 Superior primer and 2.0 kg/m²/mm of SQ60 sand.

Minimum consumption: 0.18 kg/m²/mm of EPX2 Superior primer and 1.80 kg/m²/mm of SQ60 sand.

Maximum consumption: 0.23 kg/m²/mm of EPX2 Superior primer and 2.27 kg/m²/mm of SQ60 sand.
(weight ratio: 10 /1: SQ60 / EPX2 Superior Primer)

Epoxy screed for thicknesses > 20 mm

Consumption: 3 kg/m²/mm of EPX2 Superior mortar.

That is 0.3 kg/m²/mm of EPX2 Superior primer and 2.5 kg/m²/mm of SQ80 sand.

(weight ratio: 10/1: SQ80 / EPX2 Superior Primer)

A final layer of epoxy mortar for leveling is always recommended after the application of epoxy mortars used to correct a difference in level or fill holes.

Application of mortar for walk-in shower trays (WEDI tray): approximately 8kg (primer + sand)/m² for a minimum thickness of approximately 3 mm. Use a gelling agent if necessary.

Important recommendations

Adjust the coverage according to the substrate so that the finished surface is level and the tile joints are completely filled. Two coats may be applied if necessary.

Failure to comply with the specified mixing ratios for Components A and B and the sands, or the use of other products, will impair system quality, including adhesion and mechanical performance.

Gelling Agent is an additive recommended for wall applications to prevent sagging on vertical surfaces. Refer to the Gelling Agent Technical Data Sheet.

APPLICATION TOOLS

Apply using a 6 mm triangular-notched trowel and an OUTIL PARFAIT Parfait'Liss 35 cm smoothing trowel, or equivalent.

APPLICATION CONDITIONS

TEMPERATURE	>10°C and <30°C
SUBSTRATE TEMPERATURE	The substrate temperature must be at least 3°C above the dew point to prevent condensation.
SUBSTRATE MOISTURE CONTENT	<4%, and <0.5% for an anhydrite screed. There must be no rising moisture according to ASTM D4263 (plastic sheet test).
RELATIVE HUMIDITY	<80%
Protect from wind, direct sunlight, rain, frost, and the surrounding flora and fauna during application and setting.	

APPLICATION METHOD

Thoroughly mix EPX2 Superior Component A mechanically on its own.

When exposed to low temperatures, Component A may thicken considerably, to the point that mixing becomes impossible. This does not affect the product’s performance and is fully reversible. In this case, the use of a heating belt is recommended. Heating Component A for 8 hours at 35–40°C (indicative temperature to be adjusted according to the volume of product being heated) may be recommended to restore its fluidity before use. Check the temperature of Component A before application, as an excessively warm product may have too short an open time.

Then add Component B and mix mechanically for several minutes at a ratio of 667 g of A to 333 g of B, yielding 1 kg of ready-to-use EPX2 Superior.

Step 1: Apply as an epoxy mortar to create a feather-edge skim coat over tile joints.
This step is recommended for wide joints.
Mix Component A alone using a mechanical mixer.
Then add Component B and mix mechanically for at least 3 minutes. The mixture must be perfectly homogeneous.
Mix at low speed with the mixer positioned at the bottom of the bucket to minimize air entrapment.

Incorporate the SQ10 sand and continue mixing for 2 minutes.

Apply the mortar with a 6 mm notched comb, triangular teeth and smooth it with the Parfait'Liss trowel to obtain a perfectly smooth surface.

Sprinkle with SQ10 Sand to refusal while the layer is still fresh.

In all cases, sprinkle the sand evenly, remove the excess with a vacuum cleaner once the primer is dry, and check that there are no gaps. This is the key to successful adhesion.

If a hollow remains after drying (if the joints are deep), pull to zero again and sprinkle with SQ10 Sand while the epoxy primer is still fresh.

Step 2: Installation of a 4 x 4 mm reinforcing mesh.

Unroll the mesh over the surface and manage the junctions between the mesh strips.

Pour an epoxy mortar based on EPX2 Superior primer and SQ10 onto the mesh. This mortar will hold the mesh to the surface of the ground.

To create a mechanical bond, sprinkle with SQ20 Sand while the layer is still fresh.

In the case of an epoxy not sprinkled to refusal, it is essential to surface the entire surface with diamond to create a mechanical bond.

Step 3:

- Once the sandblasted epoxy mortar is completely dry and dust-free, it can be sanded with 40 grit.

DRYING TIME AT 20°C AND 60% RELATIVE HUMIDITY

OPEN TIME (EPX2 SUPERIOR MORTAR)	+10°C: approximately 40 minutes; +20°C: approximately 20 minutes; +30°C: approximately 10 minutes
LIGHT TRAFFIC	24 hours
CAN BE COVERED WITH A DECORATIVE COATING	24 hours
COMPLETE DRYING	8 days
At 10°C, drying times are more than doubled. These data are indicative because curing times vary depending on drying conditions (especially temperature and relative humidity).	

TOOL CLEANING

Solvent-based cleaner.

PRODUCT APPEARANCE

Appearance in the pot: resin: liquid; hardener: liquid

DENSITY A + B (AT 20°C)

Resin and hardener: approximately 1.1

DRY EXTRACT: 100%

Shore D hardness > 78 (at 20°C)

FLASHPOINT

PE > 100°C

PRACTICAL USE TIME (20°C, 60%)

- EPX2 Superior pure: 10 minutes at 20°C
- EPX2 Superior Mortar: 20 minutes at 20°C. At 30°C, the practical working time is reduced by half (10 minutes).

STORAGE

1 year in its original unopened packaging, protected from sunlight and frost, at a temperature between +5° and 30°C.

Check the product's best before date (DLUO).

SAFETY

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

VOC levels are also available in part 15 of the Safety Data Sheet.

INCORPORATION ORDER	PRODUCT	7.5 KG
1	Component A	5 kg
2	Component B	2.5 kg
3	Option: Gelling agent	min.: 0.15 kg – max.: 0.30 kg
4	SQ10	11.2 kg (if using gelling agent, use 7.5 kg)

INCORPORATION ORDER	PRODUCT	7,5 KG
1	Component A	5 kg
2	Component B	2,5 kg
3	Option: Gelling agent	min : 0,15 kg – max 0,30 kg
4	SQ40	max : 90 kg



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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