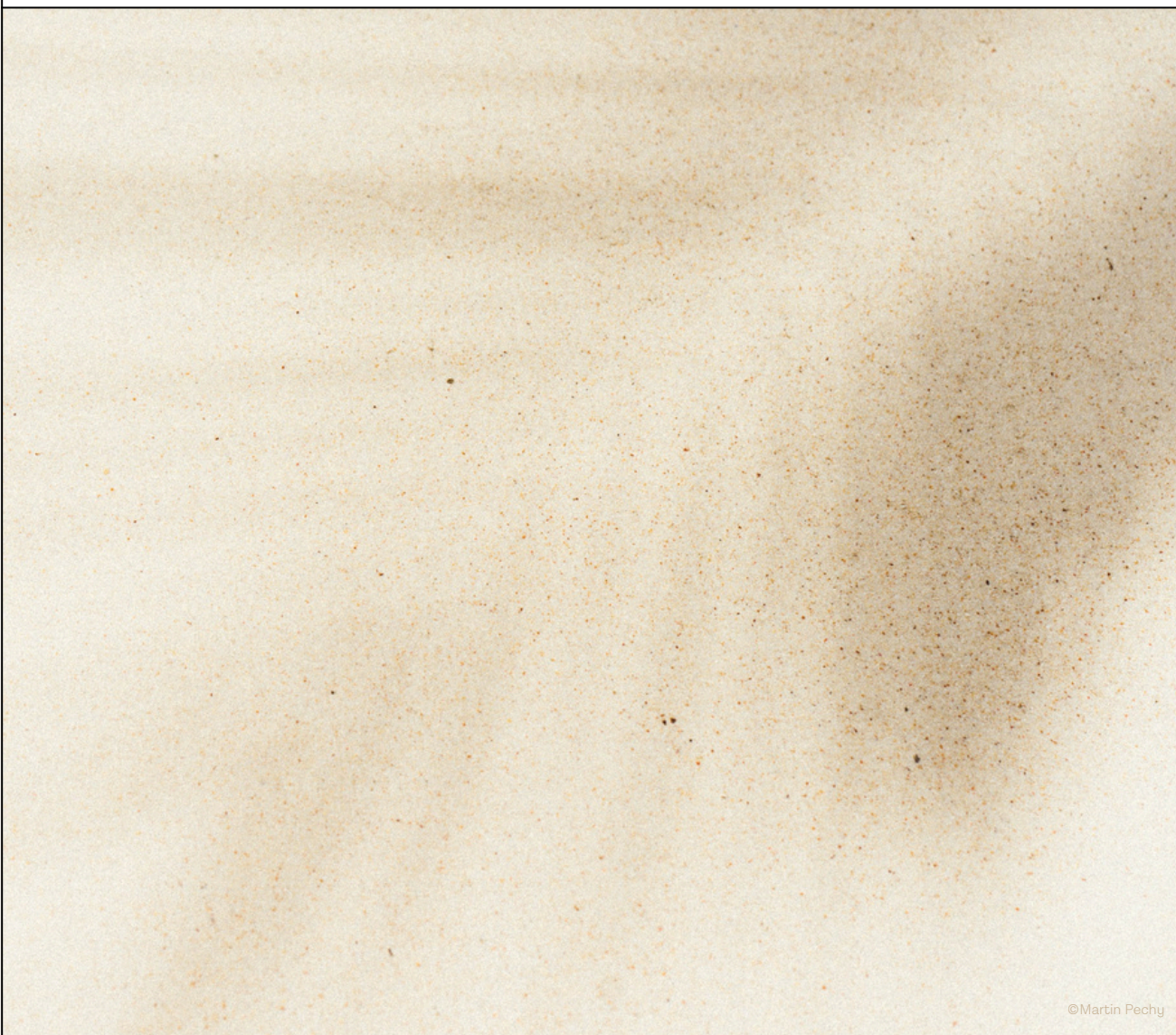


MARIUS AURENTI



©Martin Pechy

EPX VAPOR BARRIER PRIMER

TECHNICAL DATA SHEET
Edition of 17/07/2026

AREAS OF USE

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

COMPOSITION

High solids epoxy primer, two-component (resin part and hardener part).

PROPERTIES

Excellent adhesion, usable in barrier processes, impermeable to liquids.

Low viscosity for easy application

PACKAGING

13.5kg kit (10 kg component A + 3.5 kg component B)

SUBSTRATES AND SUBSTRATE PREPARATION

Indoor use: Concrete, mortar, cement and calcium carbonate screeds, tiles, etc. The substrate must be sound, resistant, 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. Surface hardness should be checked.

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 thoroughly dusted by vacuuming, then filled with EPX Vapor Barrier Primer Mortar (EPX Vapor Barrier 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 EPX Vapor Barrier Primer using a 10 mm microfiber roller
- Place the Marius Aurenti biaxial mesh over the crack
- Apply 400 g/m² of EPX Vapor Barrier Primer using a 10 mm microfiber roller

Ensure the mesh is completely embedded in the EPX Vapor Barrier 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.

CONSUMPTION

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

Floor: average consumption: 2.4kg/m² of EPX Vapor Barrier mortar. Or average consumption: 1.2 kg/m² of EPX Vapor Barrier Primer and 1.2 kg of SQ10 sand (Weight ratio: 1/1: SQ10/EPX Vapor Barrier primer). Lay edge to edge, without overlapping the Marius Aurenti mesh strips. Sprinkle with SQ10 or SQ20 sand to create mechanical bond to the substrate: consumption 2kg/m².

On tiled surfaces, the minimum thickness of the EPX vapor barrier mortar is 2mm.

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 EPX Vapor Barrier mortar. Or average consumption: 0.15 kg/m²/mm of EPX Vapor Barrier primer and 1.5 kg/m²/mm of SQ40 sand.

Minimum consumption: 0.14 kg/m²/mm of EPX Vapor Barrier primer and 1.36 kg/m²/mm of SQ40 sand.

Maximum consumption: 0.18 kg/m²/mm of EPX Vapor Barrier primer and 1.82 kg/m²/mm of SQ40 sand.
(weight ratio: 10 /1: SQ40 / EPX primary vapor barrier)

Epoxy screed for thicknesses between 10 and 20 mm

Consumption: 2 - 2.5 kg/m²/mm of EPX vapor barrier 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 primary)

Epoxy screed for thicknesses > 20 mm

Consumption: 3 kg/m²/mm of EPX vapor barrier mortar.

That is 0.3 kg/m²/mm of EPX Vapor Barrier primer and 2.5 kg/m²/mm of SQ80 sand.

(weight ratio: 10 /1: SQ80 / EPX primary vapor barrier)

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.

Important recommendations

Consumption will be adjusted according to the substrate so that the resulting surface is flat and the tile joints are filled. Two coats can be applied if necessary.

Failure to respect the mixing proportions between components A and B and the sands, or the use of other products, alters the quality of the system (reduction of adhesion performance and mechanical performance, etc.).

APPLICATION EQUIPMENT

First with a roller, then with a debubbling roller.

Triangular notched comb with 6mm triangular teeth and perfect smoothness for finishing epoxy mortar

APPLICATION CONDITIONS

TEMPERATURE	>10°C and <30°C
MEDIUM TEMPERATURE	The substrate must be at a temperature of +3°C relative to the dew point in order to avoid any condensation phenomenon.
MOISTURE OF THE SUBSTRATE	the substrate can be damp but not dripping wet and without hydrostatic back pressure during application and drying.
RELATIVE HUMIDITY	<80%
Protect from wind, direct sunlight, rain, frost, and the surrounding flora and fauna during application and setting.	

APPLICATION PROCESS

- Implementation precautions:
- The surfaces must not be subject to negative water pressure or condensation during application and drying.
 - The vapor barrier must be protected from all contact with moisture, condensation and water for 24 hours.
 - It is recommended to work with decreasing temperatures because gas exchange can cause the support to heat up before the end of drying and lead to a bubbling phenomenon.
 - During the installation of the vapor barrier, a heating system that produces large quantities of water vapor can impair its proper drying reaction and adhesion.

Primary :

Thoroughly mix component A of the vapor barrier primer mechanically.

When exposed to low temperatures, component A can thicken significantly, to the point where mixing becomes impossible. This phenomenon does not affect the product's performance and is completely reversible. In this case, the use of a heating belt is recommended. Exposing component A for 8 hours at 35–40°C (this is an indicative temperature to be adjusted according to the volume of product to be heated) may be recommended to re-fluidify it before use. Check the component's temperature before use (a product that is too hot may have an insufficient open time).

Next, incorporate component B and mix mechanically for several minutes at the ideal speed of 300 rpm maximum to limit the introduction of air into the mixture.

Apply with a roller or rubber squeegee followed by a pass with the roller to even it out.

Leveling layer:

Thoroughly mix component A of the vapor barrier primer mechanically.

Next, incorporate component B and mix mechanically for several minutes at the ideal speed of 300 rpm maximum to limit the introduction of air into the mixture.

Incorporate the SQ10 sand and continue mixing for approximately 3 minutes until a perfectly homogeneous mixture is obtained.

Apply the mortar with a 6 mm notched comb, triangular teeth, then use a bubble roller in cross passes.

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.

DRYING TIME AT 20°C AND 60% RELATIVE HUMIDITY

OPEN TIME	+10°C: approximately 60 minutes; +20°C: approximately 25 minutes; +30°C: approximately 15 minutes
LIGHT TRAFFIC	12 hours (20°C)
CAN BE COVERED WITH A DECORATIVE COATING	12 to 48 hours at 20°C (95 hours at 10°C and 24 hours at 30°C)
COMPLETE DRYING	7 days (10 days at 10°C)
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%

DURETE SHORE D > 78

WATER VAPOR PERMEABILITY

class III: $S_o > 50 \text{ m}$

CAPILLARY ABSORPTION AND WATER PERMEABILITY $W < 0.1 \text{ kg.m}^{-2}.\text{h}^{-0.5}$

STORAGE

2 years 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).

SECURITY

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	13,5 KG
1	Component A	10 kg
2	Component B	3,5 kg
3	SQ10	20.3 kg (drawn to zero without camouflage) 13.5 kg (with Marius Aurenti 4x4 cargo net)



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.



www.mariusaurenti.com +33 (0)9 87 87 65 75