



# MOISTURE VAPOR BARRIER

DS-560-0921

**Globally Proven  
Construction Solutions**



## 1. PRODUCT NAME

MOISTURE VAPOR BARRIER

## 2. MANUFACTURER

LATICRETE Europe S.r.l. a socio unico

Via Paletti, snc, 41051

Castelnuovo Rangone MO, Italy

Telephone: +39 059 535540

Email: [info@laticreteurope.com](mailto:info@laticreteurope.com)

Website: [laticrete.eu](http://laticrete.eu)

## 3. PRODUCT DESCRIPTION

MOISTURE VAPOR BARRIER is a solvent-free, two-component epoxy primer and moisture vapour barrier with high bond strength, even on substrates with some moisture.

It is used for preparation of cementitious or tiled substrates, designed to improve the bond of tile adhesive and mortars, self-levelling compounds, and epoxy, polyurethane and polyaspartic coatings.

### Uses

- To improve the bond of tile adhesives and mortars, self-levelling compounds, and epoxy, polyurethane and polyaspartic coatings
- For use with substrates with slight moisture ( $\leq 8\%$  RH)

### Advantages

- All-in-one moisture vapour barrier and primer
- Excellent chemical resistance and bond strength
- Compatible with various substrates and finishes

### Suitable Substrates

- Concrete
- Ceramic Tile and Stone

### Packaging

20 kg kit, includes:

- 15 kg Part A
- 5 kg Part B

### Approximate Coverage / Consumption

$\sim 0.25$  kg / m<sup>2</sup>

### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for one (1) year if stored off the ground in a dry area.

### Limitations

- MOISTURE VAPOR BARRIER is not a waterproofing membrane and is not intended to stop liquid water intrusion through or into the slab.
- All existing expansion joints, cold joints and control joints must be brought up through the VAPOR REDUCTION COATING and the finish. Failure to honor movement joints will result in cracking and/or loss of bond.
- DO NOT install over existing tile or stone without mechanically preparing the substrate first.
- Protect product and application from frost, heat and direct sunlight.

### Cautions

Consult SDS for more safety information.

- Always carry out preliminary tests.
- Do not eat, drink or smoke during application.
- Wear eye protection, protective gloves and protective clothing when handling.
- Keep out of reach of children

## 4. TECHNICAL DATA

### Physical Properties

Reaction to fire (EN 13501-1):	F
Basis:	Epoxy resin
Colour:	Clear grey
Appearance:	Gloss
Permeability to water vapor (EN 12086):	No
Temperature Resistance:	From -15°C to +75 °C

### Working Properties

Consistency:	Fluid
Wet Density at 20°C	1,25 kg/L (± 0.05)
Application Temperature	From +5°C to +35°C
Application RH	From 35% to 85%
Mix Ratio (A:B by weight)	3:1
% Solids:	96% (± 2%)
Recommended Thickness:	100 microns
Working Time:	60 minutes
Dust-free	6 hours
Dry to touch	8 hours
Minimum Re-Coat Time:	10 hours
Maximum Re-Coat Time:	24 hours
Time to Vehicular Traffic	24 hours
Final Cure	7 days

(23°C, 50% RH)

*Specifications subject to change without notification. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.*

## 5. INSTALLATION

### Surface Preparation

Surface preparation is crucial for successful installation. Newly constructed concrete substrates that have been cured for at least 28 days must be subjected to mechanical abrasion (shot peening) to eliminate the cement milk that forms on the surface.

Old deteriorated concrete substrates must be scarified to remove the first layer of a few millimeters that could be friable due to mechanical wear.

Existing tile substrates must be mechanically prepared (with abrasion or shot peening) before installation of MOISTURE VAPOR BARRIER. This ensures the surface is clean and free of any bond inhibitors such as grease, oil, or dirt, as well as improves the mechanical bond of the substrate.

Concrete slab to receive MOISTURE VAPOR BARRIER must have a tensile pull-off strength of 200 psi (1.4 MPa) or greater when tested in accordance with ASTM F3010.

Surface and ambient temperature must be between 5°C and 35°C during application and for 24 hours after.

### Joints, Cracks, Surface Depressions & Other Irregularities

Moving joints (e.g. expansion joints, isolation joints, etc.) and dynamic cracks must be honored up through the MOISTURE VAPOR BARRIER. LATICRETE is not responsible for vapor emission through untreated joints or for areas where cracks may develop later.

All non-moving joints and dormant cracks (e.g. saw cuts, surface cracks, grooves, etc.) must be cleaned out and free of all loose debris. Non-structural cracks up to 3 mm in width can be filled with MOISTURE VAPOR BARRIER epoxy during main application. Inspect these areas to ensure cracks are completely filled with no voids.

Non-moving joints, dormant cracks greater than 3 mm wide, can be patched with a mixture of 1 part mixed MOISTURE VAPOR BARRIER and 3 parts clean, dry play sand. In a suitable container, such as an empty MOISTURE VAPOR BARRIER pail, pour 1 part MOISTURE VAPOR BARRIER preblended to 3 parts clean, dry play sand, using a 300 rpm drill with jiffy paddle, mix together for 2-3 minutes until the MOISTURE VAPOR BARRIER and sand mixture is consistent. Slowly pour the mixture into the crack, using the flat side of a trowel force the mortar into the crack. Surface crazing and hairline cracks do not need filling. Construction joints, expansion joints and large moving cracks that have lost aggregate lock (one side of the crack is higher than the other) have structural implications and cannot be repaired using this method

### Moisture Evaluation

Moisture testing must be conducted by evaluating moisture conditions in various levels of the substrate prior to MOISTURE VAPOR BARRIER application. For tiled floors, remove a tile to evaluate moisture conditions below.

Substrates must not exceed 8% RH, as measured using an electric hygrometer. Moisture testing should be completed in several locations a few hours before application of MOISTURE VAPOR BARRIER, in order to ensure accurate results of moisture conditions.

### Mixing

Before using, store resins at room temperature 18-30°C for 24 hours to ensure ease of mixing. Prior to mixing Part A and Part B, individually mix Part B for 2 minutes. Mix Part A and Part B in a ratio of 3:1 by weight (components are packaged into the pails to the specified ratio). Pour the Part A into the larger Part B pail. Verify that all of the Part A liquid is drained from the pail.

Mix with a slow speed drill (<300 RPM) with a jiffy blade for 3 minutes, assuring mixture is fully uniform and that all ribbons of contrasting shade are completely eliminated. After thoroughly mixing the components, the product is ready to use. Pour the fully mixed material onto the substrate immediately after mixing.

### Application

Application can be done with a brush, roller or spray. The quality of the application will be affected by the equipment, equipment and tools used, as well as the environmental conditions of application, such as temperature, relative humidity and the presence of dust in the application area. When applying the product for the first time it is recommended to perform some preliminary tests in order to verify and validate the process to ensure the best technical and aesthetic result.

Pour ribbons of MOISTURE VAPOR BARRIER onto the prepared concrete and spread using a resin broom, or a notched squeegee that is designed to apply the desired mil thickness in a single coat. Apply an even coat making sure to cover all areas thoroughly. Immediately following, while the epoxy is still wet, use a roller skin or other high quality 9 mm nap non-shedding paint roller to back-roll at 90 degrees from the squeegee direction to help ensure full coverage and uniform thickness.

### Finish Flooring & Self-Levelling Underlayments Installation

Floor goods, including resinous coatings, and self-levelling underlayments can be installed over MOISTURE VAPOR BARRIER when the epoxy is dry to the touch with no transfer; typically 10 hours after application depending on ambient and substrate conditions.

The maximum time to install goods and self-leveling underlayments over MOISTURE VAPOR BARRIER is 24 hours provided that the surface is protected from traffic, dust, debris, water and any other contaminants.

## 6. AVAILABILITY AND COST

### Availability

LATICRETE® materials are available worldwide. For distributor information, please contact LATICRETE Europe S.r.l. a socio unico:

+39 059 535540

[info@laticreteeuropa.com](mailto:info@laticreteeuropa.com)

For on-line distributor information, visit [www.laticrete.eu](http://www.laticrete.eu).

### Cost

Contact LATICRETE Europe S.r.l. a socio unico to obtain complete information and cost.

## 7. WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions and use. The warranty validity of one (1) year. Contact Technical Services for further information. See 10. FILING SYSTEM:

- DS 230.13EU: 1 Year Product Warranty

## 8. MAINTENANCE

LATICRETE® and LATAPOXY® are products of high quality designed to achieve lasting installations and avoid maintenance, however performance and durability may depend on properly maintaining products, depending on the cleaning products used.

## 9. TECHNICAL SERVICES

### Technical Assistance

Information is available by calling or emailing the Technical Service Hotline:

+39 059 535540

[technicalservices@laticreteeuropa.com](mailto:technicalservices@laticreteeuropa.com)

### Technical and Safety Literature

To obtain technical and safety literature, please visit our website at [www.laticrete.eu](http://www.laticrete.eu).

### Warning

The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® is unable to directly control the installation methods and conditions of products and does not assume any liability arising from their implementation. Those who want to use LATICRETE® products should conduct adequate tests to determine the site specifications. Results shown are typical but reflect test procedures used. Actual field performance will depend on installation method and site conditions.

LATICRETE® products are covered by a warranty within the limits of what is established by our general conditions of sale and within the limits of correspondence related to technical specifications and applicable certifications, as expressly indicated in the product data sheets, documentation, or applicable technical documentation.

## 10. FILING SYSTEM

Additional product information is available on our website at [laticrete.eu](http://laticrete.eu). The following is a list of related documents:

- DS 230.13EU: 1 Year Product Warranty