



AQUA BARRIER

Two-Component Cement-Based Elastic Waterproofing Membrane

AQUA BARRIER is a two-part polymer modified cementitious waterproof slurry comprising of a liquid polymer part and cement-based powder part. When mixed together and applied it cures to a flexible elastomeric membrane. It is applied to concrete and masonry water retaining structures to prevent water infiltration.



FEATURES/BENEFITS

- Excellent Waterproofing
- Highly Flexible, accommodate thermal movement of substrate
- Superior Crack-Bridging
- High resistance to chloride and other salts
- Breathable - stops water ingress but allows substrate to breathe
- Superb adhesion with substrates
- Protects against carbonation
- Applicable standards: ASTM D751, EN 12390-8 & EN14891
- Use special alkali resistant glass fiber fabric for waterproofing balconies, basins, terrace, swimming pools and areas under stress.

MANUFACTURER

LATICRETE Middle East LLC.
 P.O. Box. 86028, Ras Al Khaimah
 United Arab Emirates
 Toll Free (within UAE) 800 5632
 Telephone: + 971 7 244 6396
 Fax: + 971 7 244 5915
www.laticrete.me

USES

- Protecting concrete (pillars, beams, etc) from the deterioration and mechanical decay caused by carbonation and aggressive elements
- For elastic waterproofing and insulating bearing structures for baths and swimming pools before installing the ceramic tiles
- Waterproofing showers, terraces and roofs before installing covering materials or cladding
- Waterproofing old balconies in preparation for installing new flooring without removing the existing floor
- Flexible smoothing on prefabricated concrete constructions subject to vibrations and warping
- As a waterproofing membrane and to protect foundation walls
- As an elastic smoothing coat for plaster/render with micro cracking.

STANDARDS / CERTIFICATIONS

Applicable Standard:

- ASTM D751
- EN 12390-8
- EN14891

DCL Certified:



Packaging / Color

- AQUA BARRIER™ White Liquid (part A) = 8 Kg Nett.
- Grey powder (part B) = 20 Kg Nett.
- Total Pack Weight = 28 Kg Nett.

Color (Mixed): Grey

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 at 18–26°C and 50% relative humidity.

**High humidity will reduce the shelf life of bagged product.*

Suitable Substrates

- Concrete / Masonry / Cement Plaster

Approximate Coverage:

Approx. 2 Litres / m² for 2mm total thickness

Limitations

- Always apply several coats, making sure you wait until the previous coat is dry before applying the next.
- Do not apply in thicknesses of over 3 mm per coat.
- Always follow the mixing ratio recommended for the two parts.
- Do not apply in temperatures below +8°C.
- Protect against rain for at least 24 hours.
- When installing on very porous substrates (such as lightened screed or foamed clay), provide ventilating shafts every 25m² to release the dampness in the substrate

Cautions

- Consult MSDS for more safety information.
- During cold weather, protect finished work from traffic until fully cured.
- Contains Portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.
- Contains silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water.
- Do not take internally. Avoid breathing dust. Wear a respirator in dusty areas.
- Keep out of reach of children.

TECHNICAL DATA

DCLD CERTIFIED: This product has been certified for Low Emitting Materials by Dubai Central Laboratory Department (DCLD) of Dubai Municipality. No.CL20020733: 2017 Al Sa'fat Dubai Green Building Evaluation System.

Table 1: Working Properties

Mixing Ratio (Part A : Part B)	1: 2.5 by wt
Density (mixed)	1.75 kg/l
Pot life (25°C)	1 hour
Application temperature	From 8 to 35°C
Average waiting time before applying 2 nd coat.	Approx. 2 hours @ 25°C
Waiting time before applying ceramic tiles	5 days

Table 2: Physical Properties

Test	Test Standard	Result
Tensile Strength	ASTM D 751-06	>0.9 N/mm ²
Elongation at Break	ASTM D 751-06	>65 %
Water permeability	EN 12390 Part 8	Nil
Crack Bridging Ability	EN 14891-17	>1.15 mm

INSTALLATION

Surface Preparation

Preparation The substrate must be sound, flat, compact, have no parts coming away, and be free of dust, grease, form release oils, paint, wax, rust or efflorescence. Repair any holes or uneven sections. With concrete bases, remove any cast joint burrs and wait at least 30 days for setting. Before the application, drench the substrate with water and then remove the surplus with compressed air, a liquid suction system or with absorbent cloths in order to obtain a slightly damp base which, nevertheless, has a dry surface. Old floors must have wax and grease removed and must be washed. To do this, use a basic detergent. Provide the surface on which you will be applying the product with protection from direct sunlight beforehand. For external surfaces, always make expansion joints in position with those in the screed.

Mixing

Quantity: White Liquid (part A) = 8 Kg and Grey powder (part B) = 20 Kg. **Yield:** 16 Litres. (28 Kg unit)

During the summer, keep the packs of Aqua Barrier away from direct sunlight before use.

Pour the liquid into a mixing pail. Add the powder slowly into the liquid while mixing. Use a suitable mixing paddle in a slow speed drill (400 - 600rpm). Mix until a lump-free, slightly viscous slurry is obtained. This should be achieved within 2-3 minutes.

Application

Always apply the AQUABARRIER slurry coat to a pre-dampened substrate. High-absorbing substrates may require more dampening than dense substrates. Ensure there is no free standing water on the substrate prior to application. AQUABARRIER slurry coat can be applied by brush, roller, and broom. Ensure that the first coat has well worked into the substrate without any gap.

Once the first coat is dry then apply the second coat. The thickness per coat must be between 1.0 and 1.5mm. Do not add water, aggregates or hydraulic binders. If the mixture is already hardening, do not attempt to use additional water or part A (liquid) to make it workable again.

Use of glass fiber fabric.

When waterproofing terraces, balconies or swimming pools, we always recommend you add alkali resistant fiber-glass mesh to the first layer of Aqua Barrier.

During the waterproofing stage, be careful with the expansion joints and the joint between the horizontal and vertical surfaces, please contact LATICRETE Technical Service team for advice.

Wait approx. 5 days after applying Aqua Barrier before installing tiles and lay with wide joints (at least 3 mm), using LATICRETE Tile adhesive.

Cleaning

Clean tools and other items immediately after use with clean water.

AVAILABILITY AND COST**Availability**

LATICRETE® materials are available worldwide., Please contact LATICRETE for the distributor information For on-line distributor information, visit www.laticrete.com

Cost

Contact a LATICRETE® closer distributor to obtain complete information and cost.

WARRANTY

The supplier warrants this product will not deteriorate under normal conditions and use, the warranty validity of one (1) year. The product subject to the terms and conditions stated in the LATICRETE® Product Warranty. Please consult our technical support for further information

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 of the cleaning products used.

TECHNICAL SERVICES**Technical assistance**

For information contact:
enquiry@laticrete.me

Technical and safety literature

To obtain technical and safety literature, please visit our website at www.me.laticrete.com

Warning

The information and the instructions in the data sheet, although based on knowledge gained through years of applications, are indicative. LATICRETE® unable to directly control the installation conditions and modalities of application of products, do not assume any liability arising from their implementation. Those who want to use the LATICRETE® products must 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.