



AQUA BARRIER BITUM

DS-6682-0526

For the Builders of a
Better World™



1. PRODUCT NAME

AQUA BARRIER BITUM

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

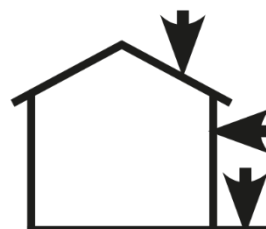
AQUA BARRIER BITUM is a special multi-purpose thixotropic waterproofing product with an innovative formulation based on bitumen in aqueous emulsion, high-tech elastomeric resins, and special additives.

Advantages

- High elasticity, ideal for accommodating movement and micro-cracks in the substrate.
- Provides waterproofing and protection against weathering and UV rays.
- Excellent resistance to the corrosive action of numerous acids.
- Simple and safe application, entirely cold-applied.
- Resistant to water pooling, even for extended periods.
- Excellent adhesion to a wide range of materials.
- Compatible with cementitious adhesives.
- High durability and resistance to aging.
- Odorless and non-flammable product.
- Non-toxic, solvent-free formulation.
- Does not crack at low temperatures and does not run at high temperatures.

Standards

- EN 14891: DM O2
- EN 1504-2 (C): PI-MC-IR
- ISO 9001:2015: CERT-09019-2001-AQ-BOL-SINCERT



Applications

- A liquid waterproofing membrane ideal for situations where it is difficult to apply bituminous membranes or shingles and where open flame application is not possible, on both vertical and horizontal surfaces.
- Sealing and finishing in waterproofing systems for roofs.
- Cold bonding of bitumen-polymer membranes to new concrete or wood surfaces, as an alternative to traditional flame bonding.
- Bonding of insulation panels.
- Quick fixes for localized repairs.
- Restoration of waterproofing on balconies and terraces without removing the existing flooring.
- Coating and waterproofing of concrete balconies prior to the installation of stoneware or clinker tiles, when bitumen-polymer membranes cannot be used.
- Creation of a waterproof and suitable bonding substrate for the subsequent installation of tiles using C2 S1 (EN 12004) cementitious adhesives outdoors.
- Dilute 50% for use as a dust-proof primer; even undiluted, it forms a waterproof surface on which to apply additional coats of the product.

Acceptable substrates

- Bitumen-polymer membranes
- Concrete
- Metal surfaces (pipes, gutters, tanks, etc.)
- Fibre cement
- Drywall
- Wood
- Ceramic flooring
- Glass

Packaging

5 kg or 20 kg per bucket

Coverage / Consumption

1.7 kg/m² per mm of thickness.

Storage

Twenty-four (24) months in original, unopened packaging, stored off the ground in a cool, dry place. High humidity will reduce the product's shelf life.

4. TECHNICAL DATA

Physical Properties

Content	Thixotropic paste
Color	Black
Density	~ 1210 kg/m ³
Dry residue by weight	56% ± 3%
pH	~ 8.7
Brookfield viscosity (spindle 6; 10 rpm)	70,000 ± 14,000 cP
Damage velocity v _d	35 m/s

Performance

Classification according to UNI EN 14891:		DM O2
	Requirement	Standard
Initial adhesion	≥ 0.5 N/mm ²	EN 14891
Adhesion after immersion in water	≥ 0,5 N/mm ²	EN 14891
Adhesion after thermal aging	≥ 0,5 N/mm ²	EN 14891
Adhesion after freeze-thaw cycles	≥ 0,5 N/mm ²	EN 14891
Adhesion after immersion in lime water	≥ 0,5 N/mm ²	EN 14891
Resistance to positive pressure of 1.5 bar for 7 days	No penetration	EN 14891
Crack Bridging Ability (at -20°C)	> 0.75 mm	EN 14891
Temperature resistance	From -30°C to +80°C	

Classification according to UNI EN 1504-2:		PI-MC-IR
	Value	Standard
CO ₂ permeability	S _D	UNI EN 1062-6
Water vapor transmission rate	Class I (S _D < 5 m)	UNI EN 7783
Liquid water permeability/absorption	W < 0,1 kg*m ⁻² *h ^{-0.5}	UNI EN 1062-3
Direct tensile adhesion	≥ 1 N/mm ²	UNI EN 1542
Reaction to fire	Class E	UNI EN 13501-1

Processing characteristics

Consistency of the mixture:	Ready-to-use semi-thick paste
Specific gravity of the mixture	~ 1210 kg/m ³
Minimum application temperature	+5°C
Touch-dry time	4 h
Waiting time before applying the next coat or recoating	24–48 hours
Full curing	7–10 days
Maximum total quantity	2,5 kg/m ²
Flexibility at low temperatures	-30°C
Dimensional stability at high temperatures	+150°C
Application temperatures	From +5°C to +35°C
Operating temperatures	From -30°C to +180°C

(data measured at +23°C, 50% relative humidity)

The technical data provided are measured under standard laboratory conditions and are subject to change without notice. Actual product performance depends on on-site application conditions, the installation method used, and the type of coating.

5. APPLICATION

Substrate Preparation

All surfaces must be flat, structurally sound, and compact; they must not have any loose parts and must be free of dust, grease, oil, paint, and wax. Thoroughly clean the surfaces, which must be solid, uniform, and dry; in the case of concrete surfaces, they must not have been previously treated with anti-evaporation products.

Surfaces may also be slightly damp but must be fully cured and must not have defects or irregularities that would require applying excessive product thicknesses and could compromise proper drying.

Before application, verify the integrity and effectiveness of the water drainage points on the surface to be waterproofed.

Product Preparation

Mix AQUA BARRIER BITUM before use

During the summer, do not expose AQUA BARRIER BITUM buckets to direct sunlight before use.

Application

Apply AQUA BARRIER BITUM with a roller, trowel, squeegee, brush, or spray, preferably in two coats, allowing a waiting time of 24 to 48 hours between coats, depending on ambient temperature and humidity conditions. To speed up application time, the second coat can be applied wet-on-wet if the first coat has been reinforced, although it is preferable to wait until the following day.

On special surfaces, vertical applications, or stressed substrates, it is recommended to reinforce AQUA BARRIER BITUM with suitable non-woven polyester fabric embedded in the first coat while it is still fresh. It is advisable to wash tools with water immediately after use; once hardened, the product must be removed with hot water or a solvent.

- Product consumption varies depending on the substrate and the desired thickness but typically ranges between 1.2 and 1.8 kg/m² total. On average, to achieve a 1 mm dry film, the amount of product used will be approximately 1.7 kg/m².
- When applying a polyester non-woven fabric reinforcement, the total consumption is 1.8–2.2 kg/m².
- For spot bonding of insulation panels, consumption is approximately 400–700 g/m².

Limitations

- Do not use the product on surfaces subject to capillary rise or high water pressure.
- Do not apply to new bituminous substrates that may still release hydrocarbons, resulting in adhesion problems.
- Do not exceed the maximum coverage per coat specified in the technical specifications.
- Do not use the product under weather conditions incompatible with proper drying (too low temperatures, freezing, rain, fog, or excessive heat).

Warnings

- Apply the product only when the ambient temperature is at or above +5°C and in the absence of adverse weather conditions such as fog, rain, or frost. Avoid application in situations of extreme heat or cold.
 - Apply the product exclusively to surfaces that do not have standing water.
 - Avoid application on recently laid bituminous substrates, which may still release hydrocarbons, compromising the membrane's adhesion.
 - Verify, in accordance with UNI 10329, that the residual moisture of the concrete substrate is $\leq 5\%$ by weight (value referring to screeds with a density of 2000 kg/m³).
 - In the presence of very damp slabs or surfaces, use suitable vapor barriers to facilitate the escape of condensation beneath the waterproof membrane and prevent the formation of bubbles.
 - Never exceed the recommended application rate per coat to allow for proper evaporation of the water contained in the product and prevent trapping under the dried film.
 - Temperatures above +35°C can significantly reduce the product's workability due to the surface film drying too quickly.
 - In applications on foundations, the coating applied with AQUA BARRIER BITUM must be protected with suitable materials prior to backfilling operations to prevent any damage.
 - The product may be walked on only occasionally and limited to occasional maintenance activities.
 - To increase the durability of the AQUA BARRIER BITUM system, it is recommended to apply a suitable protective coating afterward.
 - Always store the product at temperatures above +5°C. Frozen material becomes irreparably unusable.
 - Keep out of reach of children.
 - **For professional use only.**
- For further information, consult the product safety data sheet.

6. AVAILABILITY AND COSTS

Availability

LATICRETE® products are available worldwide. To find the dealer nearest you, contact LATICRETE EUROPE S.r.l.

Phone: +39 059 535540

Email: info@laticreteurope.com

Website: <https://eu.laticrete.com/>

Prices

Contact your nearest LATICRETE EUROPE S.r.l. product dealer for complete pricing information.

7. WARRANTY

The supplier warrants that the product will not deteriorate under normal conditions of use. The warranty is valid for one (1) year. Contact Technical Support for further information.

8. MAINTENANCE

LATICRETE® products are high-quality products designed to provide durable, maintenance-free installations; however, their durability and performance depend heavily on the type of cleaning products used.

9. TECHNICAL SERVICES

Technical Support

For information, contact Technical Support

Phone: +39 059 535540

Email: info@laticreteeurope.com

Technical and Safety Literature

To obtain technical and safety literature, visit our website: <https://eu.laticrete.com/>

Warnings

The information and guidelines provided in this Technical Data Sheet, although based on knowledge gained through years of application, are to be considered indicative. Since LATICRETE® cannot directly control the installation conditions and application methods of the products, it assumes no liability arising from their use. Anyone intending to use LATICRETE® products must conduct appropriate on-site tests to determine their suitability for the intended use.

Our products are covered by a warranty within the limits established by our general terms and conditions of sale and within the limits of our products' compliance with applicable technical specifications and certifications, as expressly indicated in the product data sheets or applicable technical documentation and expressly provided by us with the products themselves.

10. DOCUMENTATION

Additional product information is available on our website at <https://eu.laticrete.com/>.