



AQUA BARRIER BITUM

DS-6682-0226

For the Builders of a
Better World™



1. PRODUCT NAME

AQUA BARRIER BITUM

2. MANUFACTURER

LATICRETE EUROPE S.r.l. (single-member company)

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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.

Applications

- A liquid waterproofing membrane ideal where it is difficult to apply bituminous membranes or tiles and where open-flame application is not possible, on both vertical and horizontal surfaces.
- Waterproofing of walls in contact with the ground and foundation structures.
- Waterproofing of damp indoor areas such as bathrooms, showers and saunas.
- Sealing and finishing in waterproofing systems for roofs.
- Cold bonding of bitumen-polymer membranes to new concrete or timber surfaces, as an alternative to traditional torch-applied bonding.

- Bonding of insulation panels.
- Rapid interventions for localised repairs.
- Restoration of waterproofing on balconies and terraces without removing the existing flooring.
- Coating and waterproofing of concrete balconies prior to the bonding of stoneware or clinker tiles, where bitumen-polymer membranes cannot be used.
- Creation of a waterproof substrate suitable for bonding for the subsequent laying of tiles using category C cementitious adhesives (EN 12004).
- Dilute to 50% for use as a dust-proof primer; even undiluted, it forms a waterproof surface onto which further coats of the product can be applied.

Advantages

- High elasticity, ideal for accommodating movement and micro-cracks in the substrate.
- Guarantees waterproofing and protection against atmospheric agents and UV rays.
- Excellent resistance to the corrosive action of numerous acids.
- Simple and safe application, entirely at room temperature.
- Resistant to standing water, even for prolonged periods.
- Excellent adhesion to a wide range of materials.
- Compatible with cementitious adhesives.
- High durability and resistance to ageing.
- Odourless and non-flammable product.
- Non-toxic, solvent-free formulation.
- Does not crack at low temperatures and does not run at high temperatures.

Suitable substrates

- Bitumen-polymer membranes
- Concrete
- Metal surfaces (pipes, gutters, tanks, etc.)
- Fibre cement
- Plasterboard
- Wood
- Various floor coverings

Packaging

5 kg or 20 kg per bucket

Coverage / Consumption

From 1.7 kg/m² per mm of thickness.

Storage

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

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 be releasing hydrocarbons, as this may cause adhesion problems.
- Do not exceed the maximum consumption per coat specified in the technical specifications.
- Do not use the product in weather conditions incompatible with proper drying (too low temperatures, frost, rain, fog or excessive heat).

Warnings

- Apply the product only at ambient temperatures of +5°C or above and in the absence of adverse weather conditions such as fog, rain or frost. In any case, avoid application in situations of extreme heat or cold.
- Apply the product exclusively to surfaces that do not have permanent water pooling.
- Avoid application on recently laid bituminous substrates, which may still be releasing hydrocarbons, compromising the membrane's adhesion.
- Check, in accordance with UNI 10329, that the residual moisture content of the concrete substrate is $\leq 5\%$ by weight (value applicable to screeds with a density of 2000 kg/m³).
- In the case of floor slabs or very damp surfaces, use suitable vapour barriers to facilitate the escape of condensation beneath the waterproof membrane and prevent the formation of blisters.
- Never exceed the recommended application rate per coat, to allow the water contained in the product to evaporate properly and prevent it from becoming trapped beneath the dried film.
- Temperatures above +35°C can significantly reduce the workability of the product due to the surface film drying too quickly.
- When applied to foundations, the coating created with AQUA BARRIER BITUM must be protected with suitable materials prior to backfilling operations to prevent any damage.
- The product may only be walked on 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 paint afterwards.
- 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, please consult the product safety data sheet.

4. TECHNICAL DATA

Standard

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

Physical properties

Content	Thixotropic paste
Colour	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 ageing	≥ 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 vapour transmission rate	Class I (S _D < 5m)	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	E	UNI EN 13501-1

Performance characteristics according to UNI EN 11928-1		
	Value	Standard
Water impermeability (at 60 kPa)	No water penetration	UNI EN 1928
Water vapour transmission properties	Class I (S _d < 5 m)	UNI EN 7783
Direct tensile adhesion (C40 concrete substrate)	> 1 N/mm ²	UNI EN 1542
Impact resistance	Class I (≥ 4 N/m)	UNI EN 6272-1
Static punching	≥ 50 N	UNI EN 12730 B
Dynamic crack bridging (23°C)	Class B4.2	UNI EN 1062-7 B
Dynamic crack bridging at low temperatures (-10°C)	Class B4.2	UNI EN 1062-7 B
Slip resistance	Class II PTV _{dry} : 93 PTV _{wet} : 24	UNI EN 13036-4
Permeability to liquid water (capillary absorption)	Class W ₃ Low w < 0.1 kg/m ² h ^{0.5}	UNI EN 1062-3
Resistance to heat ageing 7 days at	No water penetration	UNI EN 1062-11 Clause 4.1

70±3°C (Water impermeability at 60 kPa - UNI EN 1928)		
Acceptance criteria after heat exposure (7 days at 70±3°C)	No swelling No cracking No flaking	UNI EN 4682-2 UNI EN 4682-4 UNI EN 4682-5
Resistance to 20 freeze-thaw cycles without de-icing salts (Tensile adhesion to substrate – UNI EN 1542)	≥ 1 N/mm ²	UNI EN 13687-3
Acceptance criteria following exposure to freeze-thaw cycles (20 freeze-thaw cycles)	No swelling No cracking No flaking	UNI EN 4682-2 UNI EN 4682-4 UNI EN 4682-5
UV resistance (400 MJ/m ² , 2460 hours) and spray resistance (492 hours) (Visual inspection of appearance)	Passes	UNI EN 4892-3 (cycle 3)
Acceptance criteria after exposure to UV/spray (400 MJ/m ² , for 2460 hours and spray for 492 hours)	No swelling No cracking No flaking	UNI EN 4682-2 UNI EN 4682-4 UNI EN 4682-5
Reaction to fire	Euroclass E	UNI EN 13501-1

Aqua Barrier Bitum complies with standard UNI 11928-1:2023 as a liquid-applied waterproofing product used on-site as a sealing element in a continuous (new or existing) exposed accessible roofing system.

Application 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 cure	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 recorded at +23°C, 50% relative humidity)

The technical data provided has been measured under standard laboratory conditions and is subject to change without notice. The actual performance of the product depends on site 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 from dust, grease, oil, paint and wax. Clean the surfaces thoroughly; they 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 be slightly damp, but they must be fully cured and must not have any defects or irregularities that would lead to the application of excessive thicknesses of product, which could prevent it from drying properly.

Before application, check 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 the buckets of AQUA BARRIER LASTIC to direct sunlight before use.

Application

Apply AQUA BARRIER BITUM using a roller, trowel, squeegee, brush or spray, preferably in two coats, allowing a waiting time of 24–48 hours between coats, depending on ambient temperature and humidity. To speed up application times, the second coat may be applied wet-on-wet if the first has been reinforced, although it is preferable to wait until the following day. On special surfaces, vertical applications or stressed substrates, it is advisable to reinforce AQUA BARRIER BITUM with a suitable non-woven polyester fabric reinforcement embedded in the first coat whilst 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 thinner.

- Product consumption varies depending on the substrate and the desired thickness, but is usually between 1.2 and 1.8 kg/m² in total. On average, to achieve a 1 mm dry film, the quantity 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 boards, consumption is approximately 400–700 g/m².

6. AVAILABILITY AND COSTS

Availability

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

Telephone: +39 059 535540

Email: info@laticreteeurope.com

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

Prices

Please contact your nearest LATICRETE EUROPE S.r.l. stockist for full pricing information.

7. WARRANTY

The supplier guarantees 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 long-lasting, maintenance-free installations; however, their durability and performance depend entirely on the type of cleaning products used.

9. TECHNICAL SERVICES

Technical Support

For further information, please contact Technical Support

Telephone: +39 059 535540

Email: info@laticreteurope.com

Technical and safety documentation

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

Warnings

The information and guidelines contained in this Technical Data Sheet, although based on knowledge gained through years of application, are to be regarded as indicative. As LATICRETE® is unable to directly control the installation conditions and application methods of the products, it accepts no liability arising from their installation. Anyone intending to use LATICRETE® products must carry out appropriate on-site tests to establish their suitability for the intended use.

Our products are covered by a warranty within the limits set out in our general terms and conditions of sale and within the limits of our products' compliance with the 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

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