



AQUA BARRIER ROOF

DS-6683-0226

For the Builders of a
Better World™



1. PRODUCT NAME

AQUA BARRIER ROOF

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

AQUA BARRIER ROOF is a coloured, fibre-reinforced liquid waterproofing membrane based on synthetic resins in aqueous dispersion. It forms a continuous, elastic and walkable coating that is resistant to weathering and UV rays. It can be applied cold onto new surfaces or old bituminous membranes without the need for removal. It offers high adhesion even on complex geometries and different substrates, ensuring long-lasting waterproofing.

Applications

- Waterproofing and coating of new concrete surfaces, mineral-finish membranes, fibre cement, wood, metal and ceramic. Suitable for roofs and roof coverings, balconies, terraces, bathrooms, showers, saunas, chimneys, cornices, retaining walls and foundations.
- Restoration and renewal of old waterproofing systems on existing bituminous membranes, tiled

surfaces of terraces and balconies and, more generally, the surfaces listed above.

- Internal lining of concrete tanks intended for the containment of non-potable water or non-acidic and non-aggressive liquids.
- Creation of a waterproof substrate suitable for bonding for the subsequent laying of tiles using cementitious adhesives classified as C according to EN 12004.
- Use as a skim coat on plasters prone to micro-cracking to improve the surface continuity of the substrate.

Advantages

- Reduces the carbonation processes of concrete, improving the durability of the substrate.
- Provides waterproofing resistant to weathering and UV rays.
- Cold application, directly onto old bituminous membranes, without removal and without risk of fire.
- Excellent adhesion even on complex structural details and surfaces prone to micro-cracking.
- Suitable for horizontal and vertical applications, adapting easily to surfaces of any shape.
- Requires minimal maintenance and does not require additional protection.
- Resistant to temporary water pooling, even on flat surfaces.
- Walkable after curing.
- Suitable for surfaces in industrial environments and marine areas.
- Odourless, non-flammable, non-toxic and solvent-free product.

Suitable substrates

- Concrete
- Metal surfaces (pipes, gutters, tanks, etc.)
- Fibre cement
- Plasterboard
- Wood
- Various floor coverings
- Old bituminous membranes that are sufficiently weathered

Packaging

5 kg or 20 kg per bucket

Coverage / Consumption

From 1.5 kg/m² to 2.0 kg/m² in at least 2–3 coats

Storage

Twenty-four (24) months in unopened original packaging, stored off the ground in a cool, dry place. Do not store at temperatures below +5°C.

Restrictions

- Do not use the product where there is rising damp.
- Avoid application on new, not fully stabilised bituminous surfaces, which may release hydrocarbons and compromise adhesion.
- Do not apply outside the recommended temperature range or in adverse environmental conditions that prevent proper drying.

Warnings

- The product is ready to use: do not dilute and do not stir with mechanical mixers; stir manually only if necessary.
- Apply at ambient temperatures between +5°C and +35°C, avoiding mist, rain, frost and extreme weather conditions during application and drying.
- On newly laid cementitious substrates, allow for complete curing to avoid problems related to residual moisture.
- Before application on existing bitumen-polymer membranes, apply a primer coat with **AQUA BARRIER LASTIK PRIMER**
- Check, in accordance with UNI 10329, that the residual moisture content of the cementitious substrates is ≤ 5% by weight (value referring to screeds with a density of 2000 kg/m³).
- Preferably apply to surfaces not subject to permanent water stagnation.
- If the roof includes insulation layers, more frequent maintenance work is recommended.
- Before installation on bituminous membranes or roofing, check the adhesion of **AQUA BARRIER ROOF** in advance by carrying out preliminary tests.
- The surface is suitable for pedestrians, but not for continuous traffic.
- Protect the packaging from frost: temperatures below +5°C will irreparably damage the product.
- Keep out of reach of children.
- **For professional use only.**

For further information, please refer to the product safety data sheet.

4. TECHNICAL DATA

Standard

- EN 14891: DM O1
- EN 1504-2 (C): PR-PI-MC-IR
- ISO 9001:2015: CERT-09019-2001-AQ-BOL-SINCERT

Physical properties

Content	Thixotropic paste
Colour	Grey
Density	~ 1450 kg/m ³
Dry residue by weight	70% ± 2%
Brookfield viscosity (spindle 6; 10 rpm)	50,000 ± 10,000 cP

Performance

Classification according to UNI EN 14891:		DM O1
	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 -5°C)	> 0.75 mm	EN 14891
Temperature resistance	From -20°C to +90°C	

Load	Load category	Result
250 N	P4	Water resistance of the product: LEVEL L4 (WITH LOAD P4)

Punch	Stamp diameter	Result
I3	10 mm	Product water resistance: LEVEL L3

Classification according to UNI EN 1504-2:		PR-PI-MC-IR
	Value	Standard
CO ₂ permeability	S _D > 50 m	UNI EN 1062-6
Water vapour 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
Abrasion resistance	< 3 g	UNI EN 5470-1
Impact resistance	Class III (≥ 20 Nm)	UNI EN 6272-1
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 III (≥ 20 N/m)	UNI EN 6272-1
Static punching	≥ 50 N	UNI EN 12730 B
Dynamic crack bridging (23°C)	Class B4.1	UNI EN 1062-7 B

Dynamic crack bridging at low temperatures (-10°C)	Class B2	UNI EN 1062-7 B
Slip resistance	Class II PTV _{dry} : 93 PTV _{wet} : 36	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 70±3°C (Water impermeability at 60 kPa - UNI EN 1928)	No water penetration	UNI EN 1062-11 Clause 4.1
Acceptance criteria following 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 after exposure to freeze/thaw (20 freeze/thaw cycles)	No swelling No cracking No spalling	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 following 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

The Aqua Barrier Roof product complies with standard UNI 11928-1:2023 as a liquid-applied waterproofing product installed on-site and used 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	~ 1450 kg/m ³
Minimum application temperature	+5°C
Dust-free drying time	4 h
Waiting time before applying the next coat or recoating	24 hours
Full cure	7–10 days
Maximum total quantity	2.5 kg/m ²
Application temperatures	From +5°C to +35°C
Operating temperatures	From -20°C to +90°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 sound, uniform and dry. In the case of concrete surfaces, they must not have been previously treated with anti-evaporation products.

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

Any irregularities in the substrate — such as excessively rough surfaces, cavities, gravel pockets, holes or cracks — must be repaired and/or levelled beforehand to ensure a uniform base for application. On lightweight screeds or concealed waterproofing (sub-bases, under-screeds, sub-floors), it is necessary to check the internal moisture content and consider the use of vapour diffusers.

The waterproofing must be protected from rain, dew and mist until completely dry; high humidity or low temperatures can significantly prolong drying times.

Product preparation

AQUA BARRIER ROOF is ready to use; do not dilute. If necessary, mix by hand only.

Application

Apply AQUA BARRIER ROOF using a sponge roller, short-bristle roller or smooth trowel, using a brush in the corners, in two cross-coats, allowing a waiting time of 24 hours between coats, depending on ambient temperature and humidity conditions.

On dusty or very dry surfaces, it is advisable to apply a first primer coat using AQUA BARRIER ROOF diluted with 50% water.

It is advisable to wash tools with water immediately after use; once hardened, the product should be removed with hot water or thinner.

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@laticreteurope.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@laticreteeurope.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 acquired over years of application, are to be considered indicative. As LATICRETE® cannot 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/>.