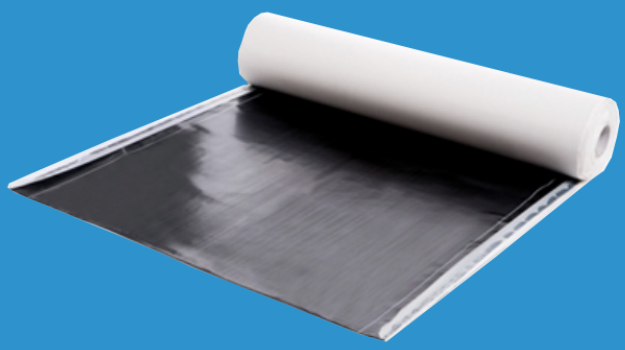
ACQUABLOCK

WATERPROOF ADHESIVE MEMBRANE

Waterproof and Anti-Radon Adhesive Membrane

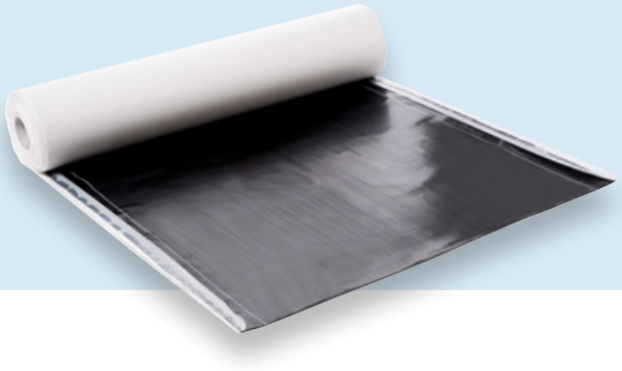


PONTAROLO® ENGINEERING

Via Clauzetto, 20
33078 San Vito al Tagliamento (PN)
Tel. + 39 0434 857010
Fax + 39 0434 857014
e-mail: info@pontarolo.com

www.pontarolo.com

ACQUABLOCK / Waterproof and Anti-Radon



TECHNICAL CHARACTERISTICS

Standard length: 20 m;
Standard thickness: 1.5 mm;
Standard width: 1000 mm.

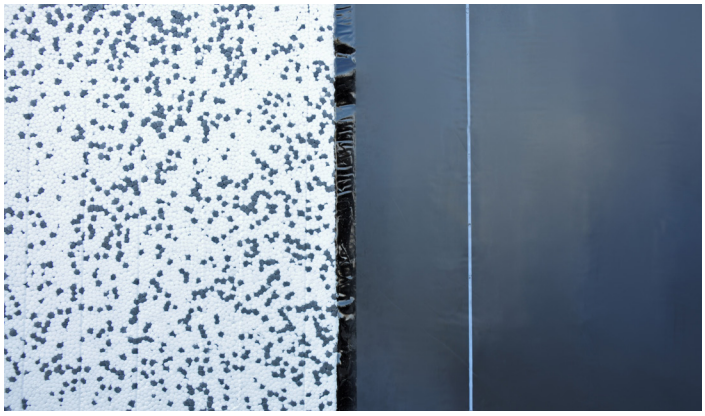
The rolls are individually packaged in cardboard boxes.

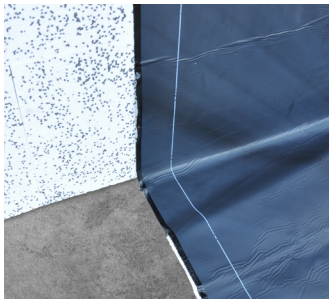
ACQUABLOCK / DESCRIPTION

Acquablock is a self-adhesive waterproof membrane, consisting of a bituminous compound spread on a high-density polyethylene film. The film gives the product excellent dimensional stability characteristics, ensuring uniform behavior under longitudinal and transverse stretching stresses, as well as excellent resistance to tearing and perforation. This membrane was designed and developed for waterproofing vertical walls, foundations, and basement walls.

THE ADVANTAGES OF ACQUABLOCK

- Waterproof, self-adhesive, and self-sealing;
- Tenacious and stretchable;
- Barrier to Radon and methane gases;
- Resistant to contact with chemicals;
- Resistant to tearing and perforation;
- Excellent shape stability;
- Compatible with steel and metals in general.





APPLICATIONS

- Waterproofing of underground Climablock walls;
- Waterproofing of foundations and underground structures;
- Waterproofing of flammable materials or walls in hazardous environments not needing the use of flames for installation.

ASSISTANCE Our Technical Office is at your disposal to provide technical assistance during the construction phase. Contact us at ***assistenza@pontarolo.com***

ACQUABLOCK / application methods

APPLICATION PROCEDURES

To obtain the best results in applying the product, it is necessary to optimally prepare the surface, which must be dry, smooth, clean, free of defects, in order to maximize the contact surface and the consequent product adhesion. Dirty and damaged surfaces must be repaired to avoid damaging the membrane.

Cleaning Procedure: Clean thoroughly with a brush to remove dirt, mold, and various residue; blow the surface to remove any dust. If the surface is porous, apply a primer. When the surface is ready, proceed with the membrane laying.

Depending on whether the application is vertical or horizontal, follow the relevant precautions.

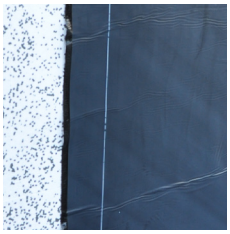
VERTICAL APPLICATION (Climablock walls)

Remove dust and any stains from the surface. In winter, avoid laying the membrane during the coldest hours of the day: the ideal temperature for laying is above 18°C. Remove about 30cm of protective film (Fig. 1), place the sheet at the highest point of the surface (Fig. 2), then apply pressure for a good adhesion. Unroll the remaining silicone film from the top to the bottom (Fig. 3) and carefully press the membrane to avoid the formation of wrinkles and air bubbles. Start laying from the corners of the structure, making sure that the corner is in the center of the membrane's width. The products should be applied in 2-2.5 m high sections; for greater measures use multiple sections starting from the bottom one and ensuring at least 15 cm of vertical overlap. The lateral overlap is indicated 5-8cm from the edge of the membrane for a good installation (Fig. 4); this minimum measure ensures a total bitumen-to-bitumen bond during the overlap. Once the membrane has been laid, fix the top of the waterproofing, and apply a rain gutter to avoid that rainwater causes the detachment of the membranes due to infiltration. Apply Scudox corrugated membrane for mechanical protection of Acquablock. After laying, protect the membrane from the sun within the first few weeks of installation; exposure of the product to UV rays can cause discoloration, fragility, and chemical degradation.


(Fig. 1)


(Fig. 2)


(Fig. 3)


(Fig. 4)

Once the laying is complete, apply a double layer of Acquablock at the corners (Fig. 5-6).


(Fig. 5)


(Fig. 6)

HORIZONTAL APPLICATION

Installation must start from the lowest point of the surface and the unrolling direction must be perpendicular to the inclination axis. Open the roll and remove the silicone paper for about 1 m. Place the unrolled part of the membrane on the surface. Rewind the roll so that the just-removed silicone paper passes under it; then, slowly pulling this latter, the membrane roll will automatically unroll leaving behind a wrinkle-free and bubble-free waterproofed surface. After laying outside, protect the membrane from the sun within a few weeks. In any case, the membrane should not be exposed to the sun, and if it should, it must be adequately protected.

FEATURES	VALUES	TEST
Thickness	1,5 mm*	EN 1849-1
Tensile properties	Long. 215 N/50 mm | Tras. 220 N/50 mm	EN 12311-1
Elongation at break	Long. 310% | Tras. 240%	EN 12311-1
Impact resistance	Met.A 500 mm | Met.B 1000 mm	EN 12691
Load/unload resistance	Met.A 10 Kg | Met.B 15 Kg	EN 12730
Tear resistance	Long. 135 N | Tras. 135 N	EN 12310-1
Peel strength	100 N/50 mm	EN 12316-1
Shear strength	Long. 350 N/50 mm | Tras. 350 N/50 mm	EN 12317-1
Adhesion (on concrete at 23°C)	3 N/mm	ASTM D 1000
Probe Tack	7 N	ASTM D 2979
Water tightness	pass at 60Kpa of water (24 hours)	EN 1928 (Metodo A)
Water tightness	pass at 6 bar of water (24 hours)	EN 1928 (Metodo B)
Water vapor permeability	90000 μ	EN 1931
Water absorption	0.09 %	ASTM D 570
Radon gas permeability	5,7 x 10^{-12} m^2/s	SP Swedish Nat. Testing & Research Institute
Methane gas permeability	< 5 cc/m^2 x 24h x atm	CSI Method
Application temperature range	0 °C * / +30 °C	-
Service temperature range	-30 °C * / +80 °C	-

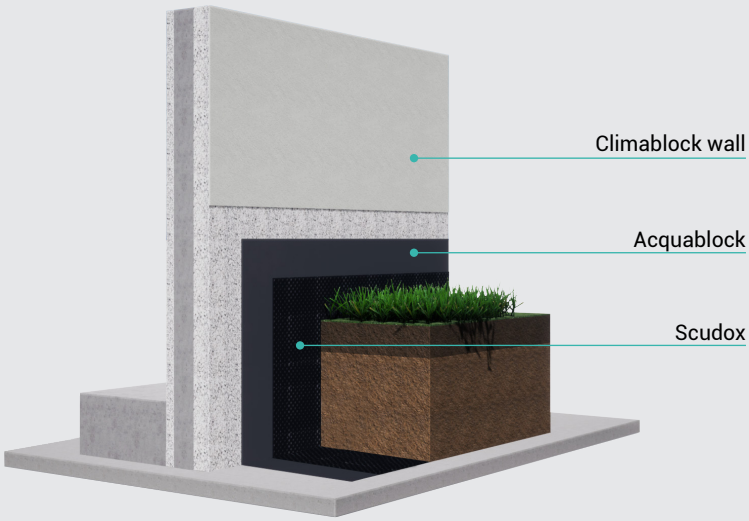
**For temperatures below 5°C, it is recommended to use special and additional precautions to facilitate adhesion (such as a specific primer for low temperatures).*

TEST
Compliant with standards: EN 13969 tipo A e T; EN 14967; EN13707
Total Volatile Organic Compound emisions (TVOC): 8 µg/m (ISO 16000-6)
Transport classification: Not Applicable
Fire reaction class: E (EN 13501 - 1)

Protect the membrane from UV rays within a few weeks of installation. Self-adhesive bituminous membranes with self-protective films made of synthetic materials are not suitable for prolonged direct exposure to sunlight.

STORAGE

The qualities and characteristics of the materials remain unchanged for a very long period of time. However, it is advisable to use them within 12 months. For proper storage, it is recommended to keep the product in its original unopened packaging and store it in a dry and well-ventilated place, at a temperature between +5°C and +40°C. Storage at a temperature above 50°C may cause difficulty in unrolling during installation. It is not affected by freezing temperatures.



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