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Agrément Certificate
97/3336
Product Sheet 2 Issue 4

PERMAQUIK 6100 MONOLITHIC HOT-MELT MEMBRANE

PERMAQUIK 6100 MONOLITHIC HOT-MELT DAMP-PROOFING SYSTEM

This Agrément Certificate Product Sheet(1) relates to the PermaQuik 6100 Monolithic Hot-Melt Damp-proofing System, for use on new or existing horizontal and vertical surfaces to form a sandwich membrane for above-ground and basement waterproofing on a structure of concrete, brickwork, blockwork or masonry, or to form a damp-proof membrane for solid floors.

(1) Hereinafter referred to as 'Certificate'.



The assessment includes

Product factors:

- compliance with Building Regulations
- compliance with additional regulatory or non-regulatory information where applicable
- evaluation against technical specifications
- assessment criteria and technical investigations
- uses and design considerations

Process factors:

- compliance with Scheme requirements
- installation, delivery, handling and storage
- production and quality controls
- maintenance and repair

Ongoing contractual Scheme elements†:

- regular assessment of production
- formal 3-yearly review

KEY FACTORS ASSESSED

Section 1. Mechanical resistance and stability
Section 2. Safety in case of fire
Section 3. Hygiene, health and the environment
Section 4. Safety and accessibility in use
Section 5. Protection against noise
Section 6. Energy economy and heat retention
Section 7. Sustainable use of natural resources
Section 8. Durability

The BBA has awarded this Certificate to the company named above for the system described herein. This system has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Fourth issue: 14 January 2026

Originally certified on 4 March 1997

Hardy Giesler
Chief Executive Officer

This BBA Agrément Certificate is issued under the BBA's Inspection Body accreditation to ISO/IEC 17020. Sections marked with † are not issued under accreditation.
The BBA is a UKAS accredited Inspection Body (No. 4345), Certification Body (No. 0113) and Testing Laboratory (No. 0357).
Readers MUST check that this is the latest issue of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.
The Certificate should be read in full as it may be misleading to read clauses in isolation.
Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.

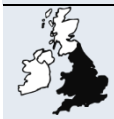
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SUMMARY OF ASSESSMENT AND COMPLIANCE

This section provides a summary of the assessment conclusions; readers should refer to the later sections of this Certificate for information about the assessments carried out.

Compliance with Regulations

Having assessed the key factors, the opinion of the BBA is that the PermaQuik 6100 Monolithic Hot-Melt Damp-proofing System, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements of the following Building Regulations:



The Building Regulations 2010 (England and Wales) (as amended)

Requirement:	**C2(a)**	**Resistance to moisture**
Comment:		The system will enable a structure to satisfy this Requirement. See section 3 of this Certificate.
Regulation:	**7(1)**	**Materials and workmanship**
Comment:		The system is acceptable. See sections 8 and 9 of this Certificate.



The Building (Scotland) Regulations 2004 (as amended)

Regulation:	**8(1)**	**Fitness and durability of materials and workmanship**
Comment:		The system is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**9**	**Building standards – construction**
Standard:	3.4	Moisture from the ground
Comment:		The system will enable a structure to satisfy this Standard, with reference to clauses 3.4.2[(1)(2)] and 3.4.7[(1)(2)]. See section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The system can contribute to satisfying the relevant requirements of Regulation 9, Standards 1 to 6, and therefore will contribute to a construction meeting at least a bronze level of sustainability as defined in this Standard.
Regulation:	**12**	**Building standards – conversion**
Comment:		Comments given for the system under Regulation 9, Standards 1 to 6, also apply to this Regulation, with reference to clause 0.12.1[(1)(2)] and Schedule 6[(1)(2)].

(1) Technical Handbook (Domestic).
(2) Technical Handbook (Non-Domestic).



The Building Regulations (Northern Ireland) 2012 (as amended)

Regulation:	**23(1)(a)(i) (iii)(b)(i)**	**Fitness of materials and workmanship**
Comment:		The system is acceptable. See sections 8 and 9 of this Certificate.
Regulation:	**28(b)**	**Resistance to moisture and weather**
Comment:		The system will enable a structure to satisfy this Regulation. See section 3 of this Certificate.

Additional Information

NHBC Standards 2026

In the opinion of the BBA, the PermaQuik 6100 Monolithic Hot-Melt Damp-proofing System, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards*, Chapters 5.1 *Substructure and ground bearing floors,* clause 5.1.20 *Damp-proofing concrete floors,* for use below the slab and in sandwich constructions, and 5.4 *Waterproofing of basements and other below ground structures,* for use externally.

Where Grade 2 or 3 protection is required and the below ground wall retains more than 600 mm measured from the top of the retained ground to the lowest finished floor level, the system must be used in combination with either Type B or C waterproofing protection, as defined in BS 8102 : 2022.

The opinion of the BBA does not amount to any endorsement or approval by NHBC and does not in any way guarantee that NHBC will approve such product / system as compliant with the NHBC Technical Requirements and Standards.

Fulfilment of Requirements

The BBA has judged the PermaQuik 6100 Monolithic Hot-Melt Damp-proofing System to be satisfactory for use as described in this Certificate. The system has been assessed for use on new or existing horizontal and vertical surfaces to form a sandwich membrane for above-ground and basement waterproofing on a structure of concrete, brickwork, blockwork or masonry, or to form a damp-proof membrane for solid floors.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the system under assessment. The PermaQuik 6100 Monolithic Hot-Melt Damp-proofing System consists of:

- PQ6100 — a one part, hot-applied seamless membrane made from bitumen, natural rubbers, and a blend of polymers, reinforced with polyester reinforcement
- PQ 2017 — a 50 $g \cdot m^{-2}$ spunbonded polyester fabric for use as a reinforcement to PermaQuik PQ6100 hot-melt monolithic membrane
- PQ 2060 and PQ 2061— elastomeric membranes (neoprene compound) for use as a reinforcement to the membrane in localised areas where limited movement occurs.

Ancillary Items

The following ancillary items are essential to use with the system and have been assessed with the system:

- Radmat BlackOut Surface Conditioner — a rapid drying black bitumen primer for surface conditioning of concrete and brickwork
- Radmat Red Primer — a rapid drying primer made with styrene-butadiene-styrene (SBS) resins and non-flammable solvent
- polythene sheet — a 0.01 mm thick polythene sheet for use as a separating layer.

The Certificate holder recommends the following ancillary items for use with the system, but these materials have not been assessed by the BBA and are outside the scope of this Certificate:

- PQ 2250 — a bitumen protection board
- PQ 2450 — a polypropylene protection board.

Applications

The system is intended for use in the following situations:

- on new or existing horizontal and vertical surfaces to form a sandwich membrane for above- and below-ground (basement) waterproofing on a structure of concrete, brickwork, blockwork or masonry
- as a damp-proof membrane for solid floors.

Product assessment – key factors

The system was assessed for the following key factors, and the outcome of the assessment is shown below. Conclusions relating to the Building Regulations apply to the whole of the UK unless otherwise stated.

1 Mechanical resistance and stability

Not applicable.

2 Safety in case of fire

Not applicable.

3 Hygiene, health and the environment

Data were assessed for the following characteristics.

3.1 Resistance to water and water vapour

3.1.1 Results of resistance to water and water vapour tests are given in Table 1.

Table 1 Resistance to water and water vapour

System assessed	Assessment method	Requirement	Result
PermaQuik PQ 6100 reinforced with PQ 2017	Watertightness under 60 kPa pressure to MOAT 27 : 5.1.4 : 1983	No leakage	Pass
	Water vapour resistance to BS 3177 : 1959 (23°C / 75% RH)	Value achieved	1206 MNs·g^{-1}

3.1.2 On the basis of data assessed, the system will adequately resist the passage of water under hydrostatic pressure and moisture into the structure and so satisfy the relevant requirements of the national Building Regulations.

3.2 Resistance to mechanical damage

3.2.1 Results of resistance to mechanical damage tests are given in Table 2.

Table 2 Resistance to mechanical damage

System assessed	Assessment method	Requirement	Result
PermaQuik PQ 6100 reinforced with PQ 2017 on concrete PermaQuik PQ 6100 reinforced with PQ 2061 on concrete	Resistance to cracking to Appendix B : Department of Transport Checks and Tests for the Approval of Waterproofing Systems for Concrete Decks to Highway Bridges : Method C(iv) (0°C and 20°C)	No damage at maximum crack width of 2.5 mm	Pass Pass
PermaQuik PQ 6100 reinforced with PQ 2061	Resistance to static indentation to MOAT 27 : 5.1.9 : 1983 on concrete substrate (23°C)	Value achieved	L_3
	Resistance to dynamic indentation to MOAT 27 : 5.1.10 : 1983 on perlite substrate (23°C)	Value achieved	I_4
PermaQuik PQ 6100 reinforced with PQ 2017 on steel	Resistance to static indentation to EOTA TR-007 : 2004 tested at 23°C tested at 60°C	Value achieved	 L_4 L_4
	Resistance to dynamic indentation to EOTA TR-006 : 2004 tested at 23°C	Value achieved	I_2
PQ2017 reinforcement scrim	Tensile strength to MOAT 31 : 6C : 1984 Non-directional	Value achieved	 38 N·(50 mm)$^{-1}$
PQ2060 reinforcement scrim	Longitudinal direction Transverse direction		289 N·(50 mm)$^{-1}$ 264 N·(50 mm)$^{-1}$
PQ2061 reinforcement scrim	Longitudinal direction Transverse direction		390 N·(50 mm)$^{-1}$ 369 N·(50 mm)$^{-1}$
PQ2017 reinforcement scrim	Elongation at break to MOAT 31 : 6C : 1984 Non-directional	Value achieved	 33%
PQ2060 reinforcement scrim	Longitudinal direction Transverse direction		463% 497%
PQ2061 reinforcement scrim	Longitudinal direction Transverse direction		413% 437%

3.2.2 On the basis of data assessed, the system can accept, without damage, the limited foot traffic and light concentrated loads associated with installation and maintenance. Reasonable care is required, however, to avoid puncture by sharp objects or concentrated loads.

3.2.3 The system, including when used over construction or bridging joints, can accommodate the minor structural movement likely to occur under normal service conditions without damage whilst remaining waterproof.

4 Safety and accessibility in use

Not applicable.

5 Protection against noise

Not applicable.

6 Energy economy and heat retention

Not applicable.

7 Sustainable use of natural resources

Not applicable.

8 Durability

8.1 The potential mechanisms for degradation and the known performance characteristics of the materials in the system were assessed.

8.2 Specific test data were assessed as given in Table 3.

Table 3 Durability

System assessed	Assessment method	Requirement	Result
PermaQuik PQ 6100 free film	Elastic recovery to MOAT 31 : 6G : 1984		
	Control	≥ 100%	Pass
	Heat aged for 180 days at 70°C	≥ 25%	Pass
PQ 2017 reinforcement scrim	Dimensional stability to MOAT 27 : 5.1.6 : 1983	Value achieved	
	Longitudinal direction		-0.11%
	Transverse direction		-0.59%
PQ 2061 reinforcement scrim	Longitudinal direction		-0.22%
	Transverse direction		-0.08%
PermaQuik PQ 6100 reinforced with PQ 2061 on steel	Resistance to cyclic movement to MOAT 27 : 5.1.8 : 1983 concrete substrate for 500 cycles	No loss of adhesion, no cracking occurring over the test period	Pass

8.3 Service life

8.3.1 Under normal service conditions, the system will provide an effective barrier to the transmission of moisture for the design life of the structure in which it is incorporated, provided it is designed, installed and maintained in accordance with this Certificate and the Certificate holder's instructions.

8.3.2 The system is compatible with the substrate and is resistant to chemicals it is likely to come into contact within normal service.

PROCESS ASSESSMENT

Information provided by the Certificate holder was assessed for the following factors:

9 Design, installation, workmanship and maintenance

9.1 Design

9.1.1 The design process was assessed by the BBA, and the following requirements apply in order to satisfy the performance specified in this Certificate.

9.1.2 Where Grade 3 waterproofing protection is required, the environment must also be controlled by the use of ventilation, dehumidification and/or air conditioning, as appropriate, to ensure dampness does not occur.

9.1.3 Concrete structures must be designed and built in accordance with BS EN 1992-1-1 : 2004 and its UK National Annex.

9.1.34 Where contact with materials used as damp-proof courses (DPCs) is likely, consideration must be given to the thermal stability of that material, due to the high temperatures reached during installation.

9.1.5 The system is intended for us as a fully bonded, Type A waterproofing protection as defined in BS 8102 : 2022, for waterproofing of new and existing structures and as a damp-proof membrane (DPM) for solid floors in accordance with the relevant clauses of CP 102 : 1973, Section 3.

9.1.6 In the event of contamination of the system by chemicals, oils or grease, the advice of the Certificate holder must be sought, but such advice is outside the scope of this Certificate.

9.2 Installation

9.2.1 Installation instructions provided by the Certificate holder were assessed and judged to be appropriate and adequate.

9.2.2 Installation must be carried out in accordance with this Certificate and the Certificate holder's instructions.

9.2.3 The system must be installed in accordance with the relevant requirements of CP 102 : 1973, BS 8102 : 2022, the Certificate holder's instructions and this Certificate.

9.2.4 Concrete or screeded surfaces must have a smooth finish, free from loosely adhering material and sharp protrusions. Concrete must be dry and dust free. Surfaces must be conditioned with Radmat Red Primer at a coverage rate between 7 and 11.5 $m^2 \cdot \ell^{-1}$ or Radmat BlackOut Surface Conditioner at a coverage rate of between 7 and 11.5 $m^2 \cdot l^{-1}$ and allowed to dry before application of the membrane.

9.2.5 Vertical surfaces of brickwork and blockwork must be rendered to provide an even surface. Brickwork and blockwork not rendered must be flush pointed to give a smooth surface without sudden changes in level.

9.2.6 The membrane must be covered with a protective layer as soon as possible after installation, in accordance with the Certificate holder's instructions.

9.2.7 Cakes of membrane must be heated in an insulated and stirred heater fitted with thermometers to measure the melt and oil temperatures. The nominal temperature range for the molten membrane is 190 to 205°C. The temperature of the melt must not exceed 215°C.

9.2.8 The melt must be discharged from the heater into a suitable container and applied to the surface using long-handled, rubber-bladed squeegees or by brush on small areas.

9.2.9 When used over construction joints, the membrane must be reinforced with a strip of PQ 2017 polyester scrim incorporated into the membrane. When used over bridging joints, the membrane must also be reinforced with PQ 2060 or PQ 2061.

9.2.10 The first coat of membrane must have a minimum thickness of 3 mm.

9.2.11 The PQ 2017 polyester reinforcement layer is embedded by lightly brushing it into the first layer of the membrane whilst it is still warm and tacky. The reinforcement overlaps must be at least 75 mm.

9.2.12 The second coat of membrane, applied over the top of the reinforcement, must have a minimum thickness of 3 mm.

9.3 Workmanship

Practicability of installation was assessed by the BBA and on the basis of the Certificate holder's information. To achieve the performance described in this Certificate, installation of the system must be carried out by contractors who have been trained and approved by the Certificate holder.

9.4 Maintenance and repair

9.4.1 As the system is confined within the structure and has suitable durability, maintenance is not required.

9.4.2 Damage to the membrane can be adequately repaired by patching in accordance with the Certificate holder's instructions.

10 Manufacture

10.1 The production processes for the system have been assessed, and provide assurance that the quality controls are satisfactory according to the following factors:

10.1.1 The manufacturer has provided documented information on the materials, processes, testing and control factors.

10.1.2 The quality control operated over batches of incoming materials has been assessed and deemed appropriate and adequate.

10.1.3 The quality control procedures and product testing to be undertaken have been assessed and deemed appropriate and adequate.

10.1.4 The process for management of non-conformities has been assessed and deemed appropriate and adequate.

10.1.5 An audit of each production location was undertaken, and it was confirmed that the production process was in accordance with the documented process, and that equipment has been properly tested and calibrated.

† 10.2 The BBA has undertaken to review the above measures on a regular basis through a surveillance process, to verify that the specifications and quality control operated by the manufacturer are being maintained.

11 Delivery and site handling

11.1 The Certificate holder stated that the PermaQuik 6100 is delivered to site in 16 kg cakes each wrapped in polythene film bearing the product name and the manufacturer's name. Reinforcing materials and protection layers are delivered to site in rolls.

11.2 Delivery and site handing must be performed in accordance with the Certificate holder's instructions and this Certificate, including:

11.2.1 Rolls must be stored upright, on a clean and level surface, away from excessive heat and kept under cover, protected from physical damage and contamination.

11.2.2 Reinforcing materials and protection layers must be stored under cover and kept dry.

†ANNEX A – SUPPLEMENTARY INFORMATION

Supporting information in this Annex is relevant to the system but has not formed part of the material assessed for the Certificate.

Construction (Design and Management) Regulations 2015
Construction (Design and Management) Regulations (Northern Ireland) 2016

Information in this Certificate may assist the client, designer (including Principal Designer) and contractor (including Principal Contractor) to address their obligations under these Regulations.

CLP Regulations

The Certificate holder has taken the responsibility of classifying and labelling the system components under the *GB CLP Regulation* and *CLP Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures*. Users must refer to the relevant Safety Data Sheet(s).

Bibliography

BS 3177 : 1959 *Method for determining the permeability to water vapour of flexible sheet materials used for packaging*

BS 8102 : 2022 *Code of practice for protection of below ground structures against water from the ground*

BS EN 1992-1-1 : 2004 *Eurocode 2: Design of concrete structures*
NA to BS EN 1992-1-1 : 2004 UK National Annex to *Eurocode 2: Design of concrete structures*

CP 102 : 1973 *Code of practice for protection buildings against water from the ground*

EOTA TR-006 : 2004 *Determination of the resistance to dynamic indentation*

EOTA TR-007 : 2004 *Determination of the resistance to static indentation*

MOAT 27 : 1983 *General directive for the assessment of roof waterproofing systems*

MOAT 31 : 1984 *Special directives for the assessment of reinforced homogeneous waterproof coverings of styrene-butadiene-styrene (SBS) elastomer bitumen*

Conditions

1 This Certificate:

- relates only to the product that is named and described on the front page
- is issued only to the company, firm, organisation or person named on the front page – no other company, firm, organisation or person may hold or claim that this Certificate has been issued to them
- has to be read, considered and used as a whole document – it may be misleading and will be incomplete to be selective
- is copyright of the BBA
- and any matter arising out of or in connection with it or its subject matter (including non-contractual disputes or claims) is governed by and construed in accordance with the law of England and Wales.
- the courts of England and Wales shall have exclusive jurisdiction to settle any matter arising out of or in connection with this Certificate or its subject matter (including non-contractual disputes or claims).

2 Publications, documents, specifications, legislation, regulations, standards and the like referenced in this Certificate are those that were current and/or deemed relevant by the BBA at the date of issue or reissue of this Certificate.

3 This Certificate will be displayed on the BBA website, and the Certificate Holder is entitled to use the Certificate and Certificate logo, provided that the product and its manufacture and/or fabrication, including all related and relevant parts and processes thereof:

- are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA
- continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine
- are reviewed by the BBA as and when it considers appropriate.

4 The BBA has used due skill, care and diligence in preparing this Certificate, but no warranty is provided.

5 In issuing this Certificate the BBA is not responsible and is excluded from any liability to any company, firm, organisation or person, for any matters arising directly or indirectly from:

- the presence or absence of any patent, intellectual property or similar rights subsisting in the product or any other product
- the right of the Certificate holder to manufacture, supply, install, maintain or market the product
- actual installations of the product, including their nature, design, methods, performance, workmanship and maintenance
- any works and constructions in which the product is installed, including their nature, design, methods, performance, workmanship and maintenance
- any loss or damage, including personal injury, howsoever caused by the product, including its manufacture, supply, installation, use, maintenance and removal
- any claims by the manufacturer relating to UKCA marking and CE marking.

6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product which is contained or referred to in this Certificate is the minimum required to be met when the product is manufactured, supplied, installed, used, maintained and removed. It does not purport in any way to restate the requirements of the Health and Safety at Work etc. Act 1974, or of any other statutory, common law or other duty which may exist at the date of issue or reissue of this Certificate; nor is conformity with such information to be taken as satisfying the requirements of the 1974 Act or of any statutory, common law or other duty of care.

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