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Agrément Certificate

20/5724

Product Sheet 1 Issue 2

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SIKA CHEMICAL DAMP-PROOFING SYSTEMS

SIKAMUR INJECTOCREAM-100

This Agrément Certificate Product Sheet⁽¹⁾ relates to SikaMur⁽²⁾ InjectoCream-100, a silane-based emulsion cream for forming a damp-proof course (DPC) in existing walls.

(1) Hereinafter referred to as 'Certificate'.

(2) SikaMur is a registered trademark.

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 product described herein. This product 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 Second issue: 9 March 2023

Originally certificated on 3 February 2020

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. 3537).

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.

British Board of Agrément

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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

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



In the opinion of the BBA, the use of SikaMur InjectoCream-100 in an existing building is not subject to these Regulations, but action to satisfy Requirement C2(a) and Regulation 7(1) may be necessary for a 'Material change of use' as defined in Regulation 5(a):

Requirement:	C2(a)	Resistance to moisture
Comment:		The product adequately resists the passage of moisture. See section 3 of this Certificate.
Regulation:	7(1)	Materials and workmanship
Comment:		The product is acceptable. See sections 8, 9 and Annex A of this Certificate.

The Building (Scotland) Regulations 2004 (as amended)



In the opinion of the BBA, the use of SikaMur InjectoCream-100 in an existing building is not subject to these Regulations, but action to satisfy the Regulations and related Mandatory Standards below may be necessary for a 'Conversion' as defined in Regulation 4:

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The product can contribute to a construction satisfying this Regulation. See Sections 8, 9 and Annex A of this Certificate.
Regulation:	9	Building standards applicable to construction
Standard:	3.3	Flooding and ground water
Standard:	3.4	Moisture from the ground
Comment:		The product adequately resists the passage of moisture and can contribute to satisfying these Standards, with reference to clauses 3.3.1 ⁽¹⁾⁽²⁾ , 3.4.1 ⁽¹⁾⁽²⁾ and 3.4.5 ⁽¹⁾⁽²⁾ . See Section 3 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The product can contribute to meeting the relevant requirements of Regulation 9, Standards 1 to 6 and therefore will contribute to a construction meeting a bronze level of sustainability as defined in this Standard.
Regulation:	12	Building standards applicable to conversions
Comment:		Comments in relation to the product 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)



In the opinion of the BBA, the use of SikaMur InjectoCream-100 in an existing building is not controlled by these Regulations, but action to satisfy Regulations 23(1)(a)(i)(ii)(iii)(iv) and 28(a) may be necessary for a 'Material change of use' under Regulation 8:

Regulation:	23(1)(a)(i)	Fitness of materials and workmanship
Comment:	(iii)(b)(i)	The product is acceptable. See Sections 8, 9 and Annex A of this Certificate.
Regulation:	28(a)	Resistance to moisture and weather
Comment:		The product adequately resists the passage of moisture. See Section 3 of this Certificate.

NHBC Standards 2023

In the opinion of the BBA, SikaMur InjectoCream-100, if installed, used and maintained in accordance with this Certificate, can satisfy or contribute to satisfying the relevant requirements in relation to *NHBC Standards for Conversions and Renovations*.

Fulfilment of Requirements

The BBA has judged SikaMur InjectoCream-100 to be satisfactory for use as a silane-based emulsion cream for forming a damp-proof course (DPC) in existing walls as described in this Certificate.

ASSESSMENT

Product description and intended use

The Certificate holder provided the following description for the product under assessment. SikaMur InjectoCream-100 consists of Sika InjectoCream-100 – a ready-to-use silane-based emulsion cream, used to form a barrier against rising damp where there is no DPC, or where the existing DPC has failed.

The product is intended for use in accordance with BS 6576 : 2005 and the Property Care Association *Code of Practice for Installation of Remedial Damp-proof Courses in Masonry Walls* in existing:

- solid walls of brickwork, blockwork or natural stone (including flint), up to 600 mm thick
- conventional cavity walls
- walls of rubble-filled construction of any thickness.

Product assessment – key factors

The product was assessed for the following key factors, and the outcome of the assessments are shown below. Conclusions relating to 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 Effectiveness against rising damp

3.1.1 Results of effectiveness against rising damp tests are given in Table 1.

Table 1 Results of effectiveness against rising damp tests

Product assessed	Assessment method	Requirement	Result
SikaMur InjectoCream-100	Efficacy test to WTA Technical Data Sheet 4-4- 04/D to 95% moisture	50% reduction in relative moisture content %	Pass

3.1.2 On the basis of data assessed, SikaMur InjectoCream-100, when installed in the applications described in this Certificate and in accordance with BS 6576 : 2005, will form an effective barrier against rising damp.

3.1.3 After treatment, a 230 mm thick solid brick wall previously affected by rising damp should normally dry in 6 to 12 months provided normal heating is used during the winter months. A thicker wall may take longer. Where hygroscopic salts are present, the wall may not dry completely but the replastering system will prevent damage to internal decorations.

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 this product were assessed.

8.2 Excluding use in new repair work (where highly alkaline mortars are present) the process will remain effective for at least 20 years, provided it is designed and installed in accordance with this Certificate and the Certificate holder's instructions.

PROCESS ASSESSMENT

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

9 Design, installation, workmanship and maintenance

9.1 Design

Not applicable.

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 BS 6576 : 2005, the Property Care Association *Code of practice for the investigation and control of dampness in buildings*, this Certificate and the Certificate holder's instructions. A summary of instructions and guidance are provided in Annex A

9.2.3 The installation process involves delivering a set amount of the product into a series of holes drilled into the mortar course, and the subsequent replastering. This replastering is necessary to retain salts in the body of the wall to prevent damage to subsequent redecoration. To avoid split responsibility, this should be conducted by the installer or the installer's approved agent using a BBA-approved renovation plaster system.

9.3 Workmanship

Practicability of installation was assessed by the BBA on the basis of Certificate holder's information. To achieve the performance described in this Certificate, installation of the product must be carried out by contractors with experience in the treatment of rising damp using the methods described in this Certificate.

9.4 Maintenance and repair

As the product is confined within the masonry wall and has suitable durability, maintenance is not required.

10 Manufacture

10.1 The production processes for the product 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 the 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 will review the above activities on a regular basis, through a surveillance process, to verify and re-assure 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 product is delivered to site in packaging of 300 mL cartridges and 600 mL foils.

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

- dry conditions
- at temperatures between 5 and 35°C.

Supporting information in this Annex is relevant to the product 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.

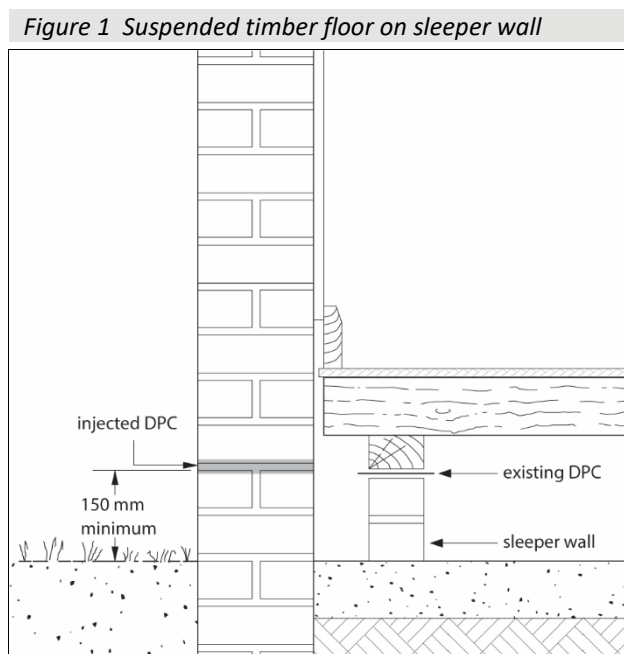
CLP Regulations

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

Additional information on installation

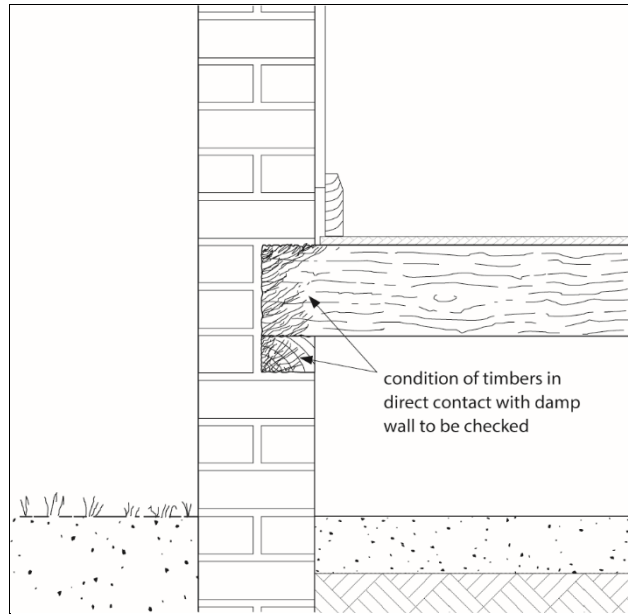
Timber floor – inspection preparation and repair

A.1 Where a suspended timber floor is independently supported on sleeper walls, with an effective DPC and showing no signs of dampness, these need not be treated (see Figure 1).



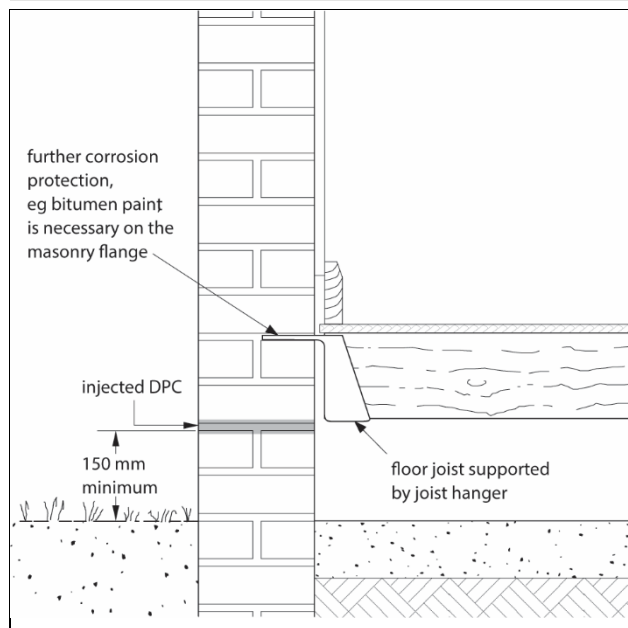
A.2 Where a suspended timber floor is supported on joists and/or a wall plate bearing on, or embedded in, the wall, there is a possibility of decay, particularly where concealed timbers are in contact with the damp wall. The condition of these timbers should be ascertained, and remedial action taken if necessary (see Figure 2).

Figure 2 Check embedded timber for decay



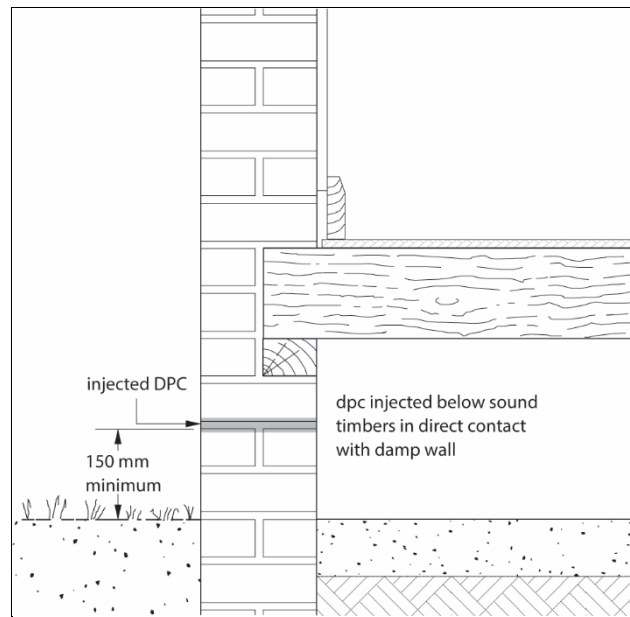
A.3 If damage is limited to the joist ends, the floors may be re-formed, using sleeper walls or joist-hangers, to isolate the timbers from the damp wall (see Figure 3).

Figure 3 Isolation of timber joists from damp wall



A.4 If the timbers are sound, the existing floor may be retained provided the DPC is formed below the timber joists and/or wall plate (see Figure 4).

Figure 4 Inject DPC below wall plate



Preparation

A.5 The course to be injected is chosen so that the position of the horizontal DPC complies, as far as is practicable, with the recommendations of BS 6576 : 2005, clause 8.3 (see section 11.4 of this Certificate).

A.6 Internal walls on solid floors are treated as close to the floor as possible.

A.7 Complementary vertical DPCs are positioned, where necessary, to isolate treated walls from the effects of rising damp in adjoining walls or to maintain continuity between horizontal DPCs at different levels.

A.8 Internal plastering which may be affected by hygroscopic salts is removed from the area to be treated to a height of 300 mm above the maximum level of the rising damp. Internal skirtings and flooring are also removed, as necessary, to expose the area for treatment. Externally, the proposed DPC line is exposed, where necessary, by removing any facing material.

Procedure

A.9 Untreated walls are isolated by the installation of a vertical DPC throughout the thickness of the wall.

A.10 Particular care is taken to avoid bridging the DPC, either internally or externally. Where external rendering has been removed, it is restored, ending in a bellcasting above the injected DPC.

A.11 The original survey may have identified other possible causes of dampness, and measures to rectify these are taken as necessary.

A.12 Holes 12 mm in diameter are drilled at intervals of 120 mm or less along the selected mortar course, to depths for various wall thicknesses as shown in Table 2.

Table 2 Depth of hole required/application rate

	Wall thickness (mm) ⁽¹⁾			
	110	220	330	440
Drill hole depth (mm)	100	190	310	420

(1) For thicker walls the depth of hole should be to within 40 mm of the opposite face.

A.13 Solid walls of brick or stone should be drilled/treated from one side only in a single operation. The selected mortar course is drilled at the prescribed centres to the appropriate depth (see Table 2). Where this is not possible, advice should be sought from the Certificate holder, but the performance of the product in this situation is outside the scope of this Certificate.

A.14 Cavity walls should preferably be treated from both sides but, if the thickness of the individual leaves permits, may be treated from one side. When undertaking treatment from one side, the drill must pass completely through the selected mortar course, then across the cavity and to a depth within 40 mm of the opposite (rear) side. The cavity must be clear before treatment.

A.15 If possible, in random stone and rubble infill walls, the mortar course is followed at the appropriately selected level, or drillings may be made into porous stone. Where the variable thickness of stone walls and the possibility of rubble infill dropping and blocking injection holes causes difficulties, it may be necessary to drill to 50% of the wall thickness from each side at a corresponding height. Alternatively, additional holes are drilled adjacent to obstructed holes to ensure that an adequate volume of the product is introduced to the wall.

A.16 The installation process consists of loading the product into the applicator gun and inserting the gun delivery tube into the full length of the predrilled hole. Each hole is backfilled fully with the product to within 10 mm of the surface by slowly squeezing the gun trigger. When treating cavity walls from one side it is essential that the holes in each leaf are filled.

A.17 The treated walls are left for a period of at least 14 days to allow initial drying out before replastering (see 9.2.3).

A.18 Holes in the external wall surfaces are plugged with sand/cement mortar coloured to match the existing wall surface, or with plastic plugs.

Bibliography

BS 6576 : 2005 + A1 : 2012 *Code of practice for diagnosis of rising damp in walls of buildings and installation of chemical damp-proof courses*

Property Care Association - Code of practice for the investigation and control of dampness in buildings

Conditions of Certificate

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
- is valid only within the UK
- 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
- is subject to English Law.

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, UKNI or 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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