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Agrément Certificate
13/5081
Product Sheet 1

DAMP AWAY DAMP-PROOF SYSTEMS

DAMP AWAY DPC CREAM

This Agrément Certificate Product Sheet⁽¹⁾ relates to Damp Away DPC Cream, a concentrated silane/siloxane emulsion cream for insertion into mortar courses to form a remedial damp-proof course (dpc) in existing walls, and the associated replastering.

(1) Hereinafter referred to as 'Certificate'.

CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Effectiveness against rising damp — when injected into suitable substrates in accordance with BS 6576 : 2005, the system forms an effective barrier against rising damp in existing walls (see section 6).

Drying time — after treatment, a 230 mm solid brick wall previously affected by rising damp should normally dry out in 6 to 12 months (see section 7).

Durability — the system will remain effective against rising damp for at least 20 years (see section 9).

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

Simon Wroe
Head of Approvals — Materials

Claire Curtis-Thomas
Chief Executive

Date of First issue: 16 January 2014

Certificate amended on 3 June 2014 to change the name of Certificate Holder.

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

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Regulations

The Building Regulations 2010 (England and Wales)



In the opinion of the BBA, the use of Damp Away DPC Cream in an existing building is not subject to these Regulations, but action to satisfy Requirement C2(a) and Regulation 7 may be necessary for a 'Material change of use' as defined in Regulation 5(a) (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

Requirement:	C2(a)	Resistance to moisture
Comment:		The system satisfies the BBA rising damp test and adequately resists the passage of moisture. See section 6 of this Certificate.
Regulation:	7	Materials and workmanship
Comment:		The system is acceptable. See section 9 and the <i>Installation</i> part of this Certificate.

The Building (Scotland) Regulations 2004 (as amended)



In the opinion of the BBA, the use of Damp Away DPC Cream in an existing building is not controlled by these Regulations, but action to satisfy the Regulation and related Mandatory Standards below may be necessary for a 'Conversion' as defined in Regulation 4 of these Regulations (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

Regulation:	8(1)	Fitness and durability of materials and workmanship
Comment:		The system can contribute to a construction satisfying this Regulation. See section 9 and the <i>Installation</i> part 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 system satisfies the BBA rising damp test and 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⁾ respectively. See section 6 of this Certificate.
Standard:	7.1(a)	Statement of sustainability
Comment:		The system 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:		All comments given for this system under Regulation 9, Standards 1 to 6 also apply to this Regulation with reference to clause 0.1.2.1 ⁽¹⁾⁽²⁾ and Schedule 6 ⁽¹⁾⁽²⁾ . (1) Technical Handbook (Domestic). (2) Technical Handbook (Non-Domestic).

The Building Regulations (Northern Ireland) 2012



In the opinion of the BBA, the use of Damp Away DPC Cream in an existing building is not controlled by these Regulations, but action to satisfy Regulations 23(a)(b)(i) and 28(a) may be necessary for a 'Material change of use' under Regulation 8 (the presence of a UK map indicates that the subject is related to the Building Regulations in the region or regions of the UK depicted):

Regulation:	23(a)(b)(i)	Fitness of materials and workmanship
Comment:		The system is acceptable. See section 9 and the <i>Installation</i> part of this Certificate.
Regulation:	28(a)	Resistance to moisture and weather
Comment:		The system satisfies the BBA rising damp test and adequately resists the passage of moisture. See section 6 of this Certificate.

Construction (Design and Management) Regulations 2007

Construction (Design and Management) Regulations (Northern Ireland) 2007

In the opinion of the BBA, there is no information in this Certificate which relates to the obligations of the client, CDM co-ordinator, designer and contractors under these Regulations.

Additional Information

NHBC Standards 2014

NHBC accepts the use of Damp Away DPC Cream, when installed, used and maintained in accordance with this Certificate, in relation to *NHBC Standards*, Section 5.1 *Substructure and ground floors*.

Technical Specification

1 Description

Damp Away DPC Cream is a ready-to-use silane/siloxane cream, used to form a barrier against rising damp where there is no dpc, or where the existing dpc has failed.

2 Manufacture

2.1 The product is manufactured in a controlled batch blending process.

2.2 As part of the assessment and ongoing surveillance of product quality, the BBA has:

- agreed with the manufacturer the quality control procedures and product testing to be undertaken
- assessed and agreed the quality control operated over batches of incoming materials
- monitored the production process and verified that it is in accordance with the documented process
- evaluated the process for management of nonconformities
- checked that equipment has been properly tested and calibrated
- undertaken to carry out 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.

3 Delivery and site handling

3.1 Damp Away DPC Cream is supplied in 310 ml and 1 litre mastic cartridges and in 5 litre containers.

3.2 The product should be stored in a cool, dry place and protected from frost.

Assessment and Technical Investigations

The following is a summary of the assessment and technical investigations carried out on Damp Away DPC Cream.

Design Considerations

4 Use

4.1 Damp Away DPC Cream is satisfactory for use to form a damp-proof course in accordance with BS 6576 : 2005 and the 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 masonry
- conventional cavity walls
- walls of rubble-filled construction.

4.2 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.

4.3 Replastering is necessary to retain the salts in the body of the wall and prevent damage to subsequent redecoration. This should be carried out in accordance with the Certificate holder's Replastering Specification (see section 12.4 and the Appendix).

4.4 Damp Away DPC Cream does not affect expanded polystyrene or bitumen.

5 Practicability of installation

The product should be installed by contractors with experience in the treatment of rising damp using the methods described in this Certificate.

6 Effectiveness against rising damp



When installed in the substrates defined in section 4.1, in accordance with BS 6576 : 2005, the system forms an effective barrier against rising damp.

7 Drying time

After treatment, a 230 mm thick solid brick wall previously affected by rising damp should normally dry out 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.

8 Maintenance

The product does not require maintenance.

9 Durability



Excluding use in new repair work (where highly alkaline mortars are present), the process is expected to remain effective for at least 20 years.

Installation

10 General

10.1 Installation of Damp Away DPC Cream is by applicator gun and must be carried out in accordance with BS 6576 : 2005 and the requirements of The Property Care Association *Code of Practice for Installation of Remedial Damp-proof Courses in Masonry Walls* by the Certificate holder's approved installers.

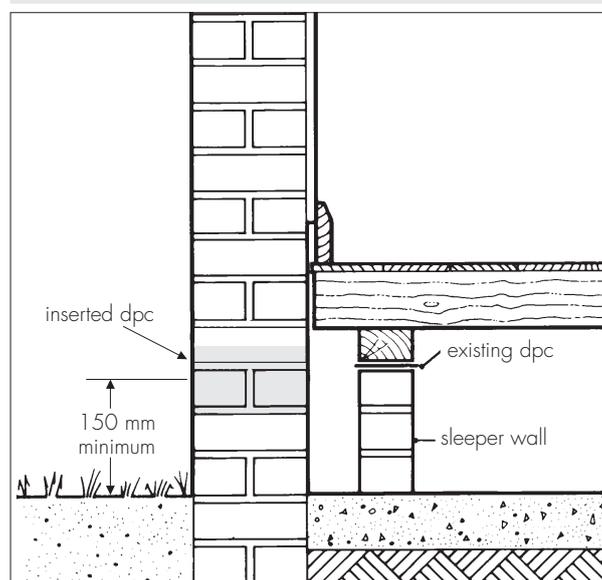
10.2 The original survey may have identified other possible causes of dampness, and measures to rectify these must be taken as necessary.

10.3 To avoid split responsibility, any replastering carried out should be conducted by the installer or his approved agent.

11 Timber floor – inspection, preparation and repair

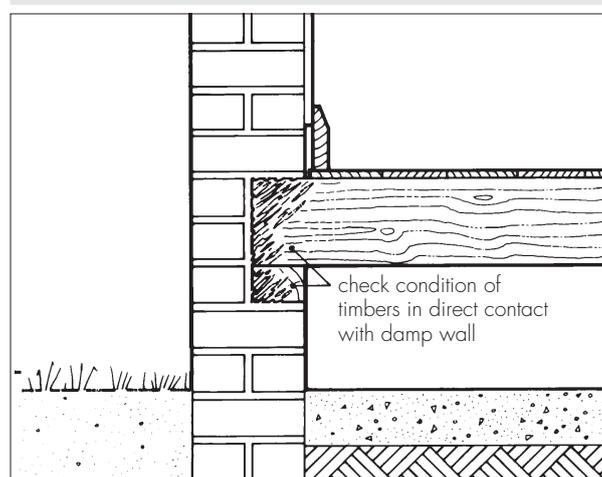
11.1 Where a suspended timber floor is independently supported on sleeper walls, with an effective dpc and showing no signs of dampness, these need not be treated (see Figure 1).

Figure 1 Suspended timber floor on sleeper wall



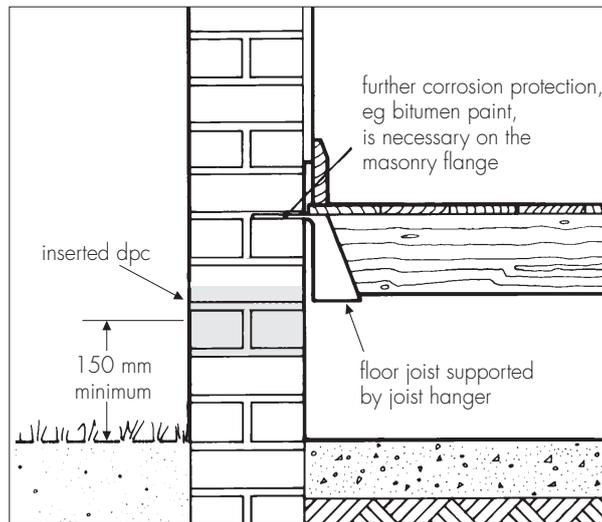
11.2 Where a suspended timber floor is supported on joists and/or a wall plate bearing on, or embedded in, the wall, there is a possibility of decay, particularly where concealed timbers are in contact with the damp wall. The condition of these timbers should be ascertained and remedial action taken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

Figure 2 Check embedded timber for decay



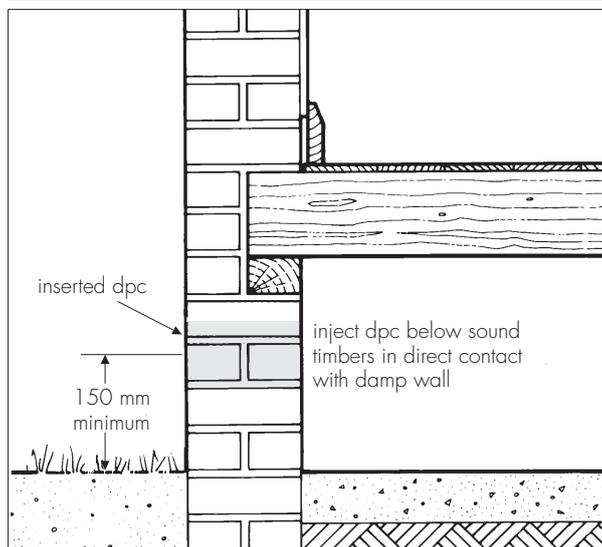
11.3 If damage is limited to the joist ends, the floors may be re-formed, using sleeper walls or joist-hangers, to isolate the timbers from the damp wall (see Figure 3).

Figure 3 Isolation of timber joists from damp wall



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

Figure 4 Inject dpc below wall plate



12 Preparation

12.1 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 12.4 of this Certificate).

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

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

12.4 Internal skirting and flooring are removed, as necessary, to expose the area for treatment. Externally, the proposed dpc line is exposed, where necessary, by removing any facing material. Internal plastering which may be affected by hygroscopic salts is removed from the area to be treated to a height of at least 300 mm above the maximum level of the rising damp (subject to a 1 m minimum height).

13 Procedure

13.1 Holes 12 mm in diameter are drilled horizontally at the base of perpend and at maximum intervals of 120 mm along the selected mortar course.

13.2 Solid walls of brick or stone should be drilled from one side to within 20 mm of the opposite face. Where this is not possible advice should be sought from the Certificate holder.

13.3 For preference, cavity walls should 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 of 90 mm in the other leaf. The cavity must be clear before treatment. When treating cavity walls from one side it is essential that the holes in each leaf are filled.

13.4 In random stone and rubble infill walls, the mortar course should, if possible, be followed at the appropriate 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 cause difficulties, it may be necessary to drill to 50% of the wall thickness from both sides at a corresponding height. Alternatively, additional holes should be drilled adjacent to obstructed holes to ensure that an adequate volume of Damp Away DPC Cream is introduced to the wall.

13.5 The injection process consists of loading the Damp Away DPC Cream cartridge into the applicator gun and inserting the gun delivery tube into the full depth of the predrilled hole. Each hole is backfilled fully with Damp Away DPC Cream to within 10 mm of the surface by slowly squeezing the gun trigger whilst withdrawing the delivery tube.

13.6 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 bell casting above the injected dpc.

13.7 Holes in the external wall surfaces are plugged with sand/cement mortar coloured to match the existing wall surface.

13.8 The treated walls are left for at least 14 days to allow initial drying out. Internal plastering is applied in accordance with the Appendix to this Certificate.

Technical Investigations

14 Tests

Tests were carried out, and the results evaluated, to determine effectiveness against rising damp to a BBA method.

15 Investigations

15.1 The manufacturing process was evaluated, and the raw material specifications, formulations and quality control procedures were established.

15.2 An assessment was made of existing data on the effectiveness of silicone-based products as a chemical dpc.

15.3 An assessment was made of data on the effectiveness and durability of similar materials used as external surface water repellents, and an assessment was made of the durability of the injection system.

15.4 An assessment was made of the materials available for replastering.

Bibliography

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

BS EN ISO 9001 : 2008 *Quality management systems — Requirements*

Property Care Association COP09 *Code of Practice for Installation of Remedial Damp-proof Courses in Masonry Walls*

16 Conditions

16.1 This Certificate:

- relates only to the product/system 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.

16.2 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.

16.3 This Certificate will remain valid for an unlimited period provided that the product/system 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.

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

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

16.6 Any information relating to the manufacture, supply, installation, use, maintenance and removal of this product/system which is contained or referred to in this Certificate is the minimum required to be met when the product/system 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.

A1 Description

Damp Away Render Additive Concentrate is a combined waterproofing, salt retardant and plasticiser additive for use in sand/cement replastering mixes applied after the removal of the existing contaminated plaster and insertion of a remedial damp-proof course.

A2 Delivery and site handling

A2.1 The packaging, shelf-life and storage requirements are given in Table 1.

Table A1 Packaging arrangements, shelf-life and storage requirements

Product	Packaging details	Shelf-life and storage requirements
Damp Away Render Additive Concentrate	1, 4 and 25 litre containers	12 months when stored in a dry place. Protect from frost, high temperature and direct sunlight

A2.2 The product should not be swallowed or splashed into the eyes. If splashing occurs, eyes should be washed with copious quantities of clean water and medical attention sought.

A2.3 The product's packaging bears the BBA identification mark incorporating the number of this Certificate.

A3 Design Considerations

A3.1 Damp Away Render Additive Concentrate is an additive for sand/cement mixes and is satisfactory for application to walls of all types of masonry where there has been rising damp and remedial dpc treatment has been conducted.

A3.2 The additive mixes are applied at a thickness of 12 mm using the normal procedures defined in BS 8481 : 2006 and BS EN 13914-2 : 2005, and finished using 3 mm Carlite finish, multifinish or similar.

A3.3 The plaster has good resistance to mechanical damage.

A3.4 Normal methods for fixing and chasing can be used, but the surface should be restored using Damp Away Render Additive Concentrate additive sand/cement mix.

A4 Installation

General

A4.1 The standard of installation of the product should comply with BS 8000-10 : 1995.

Preparation

A4.2 Details such as timber skirting should be removed.

A4.3 Mortar joints are raked out to a depth of 15 mm.

A4.4 Timber fixing grounds present in the masonry are removed.

A4.5 If the background offers little suction, a bonding aid may be applied to the surface and the wall replastered immediately.

A4.6 Where masonry is unstable this must be made good prior to the application of the render. Where it is not possible to obtain a proper bond between the wall fabric and render, eg with cob walling, expanded metal laths must be fixed to the wall surface before application.

Mixing

A4.7 The water must be clean, free from oil, dirt or other detrimental chemicals. Water suitable for drinking should be used, if available.

First coat

A4.8 A mix of three parts sand to one part cement using gauging water containing Damp Away Render Additive Concentrate is prepared⁽¹⁾. The sand should be specified as washed, sharp sand, loam-free, suitably graded for plastering to BS EN 13139 : 2002. The cement should be fresh and free flowing.

(1) Mix one part Damp Away Render Additive Concentrate with 24 parts water — a minimum of water is used to ensure a dense coat. Not more than 8 litres should be used per 50 kg of dry mix.

A4.9 The mix is compacted into joints and rendered to give an overall thickness of 12 mm, without over-trowelling. When the cement obtains its first set, this surface is scratched to form a key.

Second coat

A4.11 The mix, as for the first coat but with additive-free water, is applied to a thickness of 12 mm without over-trowelling, giving an overall thickness of 25 mm. This coat should be applied before the first coat has finally set, to obtain a satisfactory adhesion between the coats. The surface should be scratched to form a key for the finishing plaster.

Finish coat

A4.12 This should be Carlite finish, multi-finish or similar, applied to a thickness of 3 mm. Other finishes are acceptable provided they are porous. The surface must not be polished.

Miscellaneous

A4.13 To prevent any damp within a solid floor being transferred into the soft setting coat, renders and plasterwork extending behind the skirting should not make contact with the floor.

A4.14 Gypsum plaster or lightweight premix plasters must not be used to bond metal angle beads to corners.

A4.15 It should be noted that the walls will take a considerable time to dry out and it is possible that sufficient moisture would ingress into any new joinery to cause fungal decay. Therefore, where conventional timber skirting are to be fixed, these should be cut to size and fully worked, with a minimum of three brush coats of wood preservative applied.

A4.16 Skirting that has been removed but is still sound should have a minimum of three coats of diluted HSE-approved fungicide concentrate for timber and masonry, applied to the unpainted surfaces. It is also recommended that the back and bottom of skirting are given two coats of a bituminous paint, or backed with joinery liner.

A4.17 Where practicable, all joinery should be fixed by the use of masonry nails. If not, inert fixing grounds (eg plastic) should preferably be used, but timber may be used provided it is cut to size and fully worked and immersed for a minimum of 24 hours in diluted HSE-approved fungicide concentrate for timber and masonry, before being inserted into the damp masonry.

A4.18 It is important that the specification is strictly adhered to and not varied in any way. No other additives must be added to the mix, unless approved by the Certificate holder. Lightweight gypsum premix backing or bonding plasters (eg Carlite) must not be used.