



Walltransform

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**Agrément
Certificate
No 04/4136**

Designated by Government
to issue
European Technical
Approvals

WALLREFORM

Système d'enduit rénovateur
Putzsystem

Product



- THIS CERTIFICATE RELATES TO WALLREFORM, A SALT RETARDANT BACKING PLASTER USED ON THE INTERNAL SURFACES OF WALLS IN EXISTING BUILDINGS AFTER A REMEDIAL DAMP-PROOF COURSE HAS BEEN INSTALLED.

- The product is finished using a suitable finishing plaster. The Certificate holder should be consulted for advice on suitable products.

- The system is for use at a maximum finished thickness of 40 mm.

- To avoid split responsibility, the replastering should be conducted by the dpc installer or his approved agent.

Regulations

1 The Building Regulations 2000 (as amended) (England and Wales)



In the opinion of the British Board of Agrément, the use of this product is not subject to these Regulations.

2 The Building Standards (Scotland) Regulations 1990 (as amended)



In the opinion of the BBA, the use of this product is not subject to these Regulations.

3 The Building Regulations (Northern Ireland) 2000



In the opinion of the BBA, the use of this product is not subject to these Regulations.

4 Construction (Design and Management) Regulations 1994 (as amended) Construction (Design and Management) Regulations (Northern Ireland) 1995 (as amended)

Information in this Certificate may assist the client, planning supervisor, designer and contractors to address their obligations under these Regulations.

See section:

6 Delivery and site handling (6.1 and 6.5).

Technical Specification

5 Description

5.1 Wallreform is a cement-based backing plaster, containing expanded polystyrene beads and other additives. Two separate components are supplied: a powder element and the beads.

5.2 The product is manufactured in a batch-blending process. Quality control is exercised over raw materials and on the final product.

5.3 A vinyl acetate-ethylene co-polymer emulsion is used as a bonding agent.

5.4 The product is applied by hand or spray machine, to suitably-prepared substrates, in a single coat to a maximum thickness of 40 mm.

5.5 The product may be finished with a suitable finishing plaster mix. The Certificate holder can advise on suitable products.

6 Delivery and site handling

6.1 The product is supplied as two components sealed in a single bag with a total weight of 12.24 kg.

6.2 Wallreform should be stored in dry, internal conditions on pallets. The bags should be used in rotation.

6.3 Unopened bags may be stored for up to one year.

6.4 Each bag bears the product identification, batch number, date of manufacture, the NESTA⁽¹⁾ logo and the BBA identification mark incorporating the number of this Certificate.

(1) The National Endowment for Science, Technology and the Arts.

6.5 The product is cement based and must be handled following the routine precautions as used for Portland cement.

Design Data

7 General

7.1 Wallreform is satisfactory for internal use over traditional sand/cement render, brickwork, blockwork and concrete substrates, where there has been rising damp and a remedial dpc treatment has been conducted.

7.2 It is applied at a maximum thickness of 40 mm using the normal procedures defined in BS 5492 : 1990 and is finished using a suitable finishing plaster.

7.3 The product has adequate resistance to impact damage and cracking.

8 Strength and stability

The product adheres well to masonry surfaces and has a stable finish. It is unlikely to crack or lose adhesion unless structural movement takes place. Its flexural and compressive strengths are similar to traditional lime-based plasters.


9 Resistance to salt transfer

Where rising damp has created a high salt content in walls and an effective remedial treatment has been conducted, and where no other source of water ingress exists, Wallreform will provide an effective barrier against salt transfer.

10 Fixing and chasing

Normal methods for fixing and chasing can be used, the surface should be restored using a suitable finishing plaster.

11 Performance in relation to fire

 When tested in accordance with BS 476-6 : 1989, Wallreform has a fire propagation index (I) of 4.3 with sub-index (i_1) of 2.0 and, when tested to BS 476-7 : 1997, has a Class 1 surface. Therefore, it has a Class 0 surface or 'low risk' surface as defined in the various national Building Regulations.

12 Durability

The durability of Wallreform is equivalent to traditional plastering to BS 5492 : 1990.

Installation

13 Diagnosis and preparation

13.1 A full survey to diagnose the causes of dampness is made by a specialist surveyor.

13.2 If rising damp is found, a remedial treatment is conducted in accordance with BS 6576 : 1985.

13.3 Appropriate remedial measures are taken to rectify other causes for damp conditions, and to repair structural damage. Defective plaster and plaster affected by moisture and hygroscopic salts should be removed to at least 300 mm above the highest detectable sign of dampness or one metre above the dpc, whichever is the higher.

13.4 It is essential that the surface receiving the product provides a sound mechanical key to ensure a satisfactory bond between substrate and the product.

13.5 A vinyl acetate-ethylene co-polymer emulsion is used as a bonding agent.

14 Application

14.1 The standard of installation should comply with BS 8000-10 : 1995.

14.2 Replastering may take place as soon as the dpc has been installed and the substrate properly prepared in accordance with the manufacturer's instructions and this Certificate.

14.3 The product is prepared for use by mixing the two components with approximately 2 litres of water using an efficient paddle mixer or similar until a uniform consistency is achieved.

14.4 The product is applied, generally in accordance with BS 5492 : 1990, to achieve a maximum thickness of 40 mm, and a level surface. The product is applied no lower than the level of the dpc. If necessary a batten is used to achieve this.

14.5 Except in cold, damp conditions the product is sufficiently dry after 24 hours to accept the finishing coat.

15 Redecoration

After a remedial dpc treatment is conducted, a 230 mm thick solid brick wall will normally dry in 6 to 12 months, provided normal heating is used during the winter months. A thicker wall will take longer. During this period any redecoration must be permeable to water vapour, eg the wall may be decorated with one coat of matt emulsion.

Technical Investigations

The following is a summary of the technical investigations carried out on Wallreform.

16 Tests

16.1 Tests were carried out to determine the effect of salts.

16.2 A re-examination was made by the BBA of test data associated with BBA Certificate No 02/3951, Wallreform insulating render for walls.

17 Investigations

A re-examination was made by the BBA of data associated with BBA Certificate No 02/3951.

Bibliography

BS 476-6 : 1989 *Fire tests on building materials and structures — Method of test for fire propagation for products*

BS 476-7 : 1997 *Fire tests on building materials and structures — Method of test to determine the classification of the surface spread of flame of products*

BS 5492 : 1990 *Code of practice for internal plastering*

BS 6576 : 1985 *Code of practice for installation of chemical damp-proof courses*

BS 8000-10 : 1995 *Workmanship on building sites — Code of practice for plastering and rendering*

Conditions of Certification

18 Conditions

18.1 This Certificate:

- (a) relates only to the product that is described, installed, used and maintained as set out in this Certificate;
- (b) is granted only to the company, firm or person identified on the front cover — no other company, firm or person may hold or claim any entitlement to this Certificate;
- (c) is valid only within the UK;
- (d) has to be read, considered and used as a whole document — it may be misleading and will be incomplete to be selective;
- (e) is copyright of the BBA;
- (f) is subject to English law.

18.2 References in this Certificate to any Act of Parliament, Regulation made thereunder, Directive or Regulation of the European Union, Statutory Instrument, Code of Practice, British Standard, manufacturers' instructions or similar publication, are references to such publication in the form in which it was current at the date of this Certificate.

18.3 This Certificate will remain valid for an unlimited period provided that the product and the manufacture and/or fabrication including all related and relevant processes thereof:

- (a) are maintained at or above the levels which have been assessed and found to be satisfactory by the BBA;

(b) continue to be checked as and when deemed appropriate by the BBA under arrangements that it will determine; and

(c) are reviewed by the BBA as and when it considers appropriate.

18.4 In granting this Certificate, the BBA is not responsible for:

- (a) the presence or absence of any patent or similar rights subsisting in the product or any other product;
- (b) the right of the Certificate holder to market, supply, install or maintain the product; and
- (c) the nature or standard of individual installations of the product or any maintenance thereto, including methods and workmanship.

18.5 Any recommendations relating to the use or installation of this product which are contained or referred to in this Certificate are the minimum standards required to be met when the product is used. They do not purport in any way to restate the requirements of the Health & Safety at Work etc Act 1974, or of any other statutory, common law or other duty which may exist at the date of this Certificate or in the future; nor is conformity with such recommendations to be taken as satisfying the requirements of the 1974 Act or of any present or future statutory, common law or other duty of care. In granting this Certificate, the BBA does not accept responsibility to any person or body for any loss or damage, including personal injury, arising as a direct or indirect result of the installation and use of this product.



In the opinion of the British Board of Agrément, Wallreform is fit for its intended use provided it is installed, used and maintained as set out in this Certificate. Certificate No 04/4136 is accordingly awarded to Walltransform.

On behalf of the British Board of Agrément

Date of issue: 24th August 2004

Chief Executive