

## PRODUCT DATA SHEET

# Alumite

## Gas Retardant Damp-Proof Course

### Introduction

Alumite is a high-performance, tough, site-capable gas and damp proof course, developed in response to the need for a dual functioning loadbearing membrane which is capable of being compatibly bonded to the main Icopal ground membrane across the footprint of the building.

Alumite does not impose any new techniques with regard to its installation and may be fitted in accordance with British Standard codes of practice, with the additional advantage of its capability of being hot bonded to masonry, concrete and steelwork, without the need for a separate adhesive.

Alumite continues to be used as a dpc in existing buildings where the original dpc installation has failed. Alumite when correctly detailed and installed will be an effective gas retardant damp proof course for the life of the building in time.

### Description

Alumite is manufactured from a seamless roll of aluminium bonded to a tough polyester carrier and coated with an SBS modified bitumen which is finished with a silica sand to give additional bond strength. Alumite is capable of being cut, formed and bonded to achieve complex geometries on site. Alumite has a low permeability to methane and other gases; including radon.

### Compressive Strength

Alumite will not extrude under load, up to the point of compressive failure of the wall, and will not adversely affect the ability of a properly designed and built wall to sustain and transmit compression.

### Durability

When properly specified, detailed and installed, Alumite will in normal circumstances remain effective during the lifetime of the structure.

### Performance and Properties

Roll Length	8m
Roll Width	100mm-1000mm
Roll Weight	3.8kg/m <sup>2</sup>
Thickness	3mm
Methane Gas Permeability	0.06 ml/m <sup>2</sup> /day

### Compatibility

Alumite is compatible with all materials with which it will be in contact within normal construction, with the exception of timber preservatives based on creosote or tar oils. It is unaffected by timber preservatives that are water based solutions of salts. If in any doubt as to compatibility, please contact Icopal's Technical Department.

### Quality Assurance

Alumite is manufactured under a Quality Management System approved to *ISO 9001: 2000* by BSI Quality Assurance.



Certificate No: Q5556

### Installation Details

A sharp knife is necessary to cut the material. Work can be carried out under all weather conditions normal to the construction of the wall. The material maintains sufficient flexibility to be installed at low temperatures.

Installation must follow normal good practice for the detailing of damp-proof courses as set out in *BS 5628 3: 2001*, and must be in accordance with the relevant clauses of *BS 8215: revised edition: Code of Practice for design and installation of damp-proof courses in masonry construction*.



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### Preparation Of Surface

1. Alumite must extend through the full thickness of the wall leaf, including pointing, applied rendering or other material.
2. Alumite to be laid on a wet, even bed of mortar and perforations in adjacent courses of blockwork must be completely filled with mortar.
3. All lap joints in Alumite must have a minimum 100mm overlap.
4. Alumite site-formed cloaks must be used at stop-ends and all corners or changes in level of cavity trays.
5. Alumite must not be damaged by cavity cleaning after installation.
6. Precautions to be taken during subsequent work should include the following:
  - a. Use of cavity battens to prevent mortar droppings from reaching DPC.
  - b. Removal of droppings before they harden.
  - c. Inspection of cavity trays as work proceeds to check for damage.
7. When using Alumite with boot lintels or similar, it is recommended that the material is installed to follow lintel profile.

### Hot Bonded Application

Alumite bitumen dpc may be heat bonded as a horizontal and vertical damp-proof membrane where required, and is fully compatible with other Icopal hot bonded bitumen membranes.

Prior to hot-bonded application of Alumite, a primary coat of Xtra-Seal Quick Drying Primer must be applied to all surfaces and allowed to dry.

Installation should be, where relevant, in accordance with the requirements of *BS 8102: 1990* and should, wherever possible, be immediately protected.

All surfaces should have a smooth finish, free from cavities, projections and mortar deposits. Surfaces should be dry and free from dust and frost. Vertical surfaces of brick and blockwork should be dry and provide an even surface. Brick or blockwork not rendered must be flush pointed to give a smooth surface without sudden changes in level.

Design and installation guidance should be sought from Icopal's Technical Department as early as possible.

### Typical Specification

Damp-proof course to be Alumite. Site-formed cloaks to be installed at all stop-ends, corners and changes in level, to be Alumite damp-proof course system as manufactured by Icopal Ltd, Barton Dock Road, Stretford, Manchester, M32 0YL.

The damp-proof course is to be installed in accordance with the relevant clauses of *BS 5628-3: 2001* and must be in accordance with the relevant clauses of *BS 8215: revised edition: Code of practice for design and installation of damp-proof courses in masonry construction* and in accordance with manufacturer's instructions.

### NBS Specification

Alumite Damp Proof Course is specified using the following:  
**Clauses:** F30/310, F30, 340, F30/360, J40/280  
**Product:** Alumite Damp Proof Course  
**Manufacturer:** Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444 Fax: 0161 865 8433.

### Delivery And Storage

Alumite dpc is delivered to site in rolls secured with a paper wrapper.

Rolls must be stored on end and under cover. Alumite should not be stored where it is liable to come into contact with hydrocarbon solvents such as petroleum spirit and diesel oil or other organic solvents.

### Health And Safety

Health and safety data sheets are available for all materials. Please contact Icopal Technical Services Department for further information.

### Technical Services

Specialist advice and design guidance on all matters relating to Alumite, including CAD detailing for all damp proofing requirements, is freely available from our Technical Department at the address below.

### Anderson Monarflex Ltd

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NOTE: This information is given in good faith being based on the latest knowledge known to Anderson Monarflex Ltd. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice. Up to date information is available from our Technical Services Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume; based on information provided in this sheet, that the product is suitable for any abnormal use.

All products are sold subject to our standard conditions of sale, available on request.