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Xtra-Load[®] Alumite DPC

Structural Waterproofing Systems

Introduction

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

Alumite when correctly detailed and installed will be an effective gas retardant damp proof course for the life of the building in time.

Standard

Xtra-Load[®] Alumite DPC has been independently site and laboratory tested by the British Board of Agrément and awarded BBA certificate number 96/3271.



Description

Xtra-Load[®] Alumite DPC is manufactured from a strong polyester fleece and PET/alu/PET core and coated with an SBS modified bitumen which is finished with a silica sand to give additional bond strength. Alumite has a low permeability to methane and other gases, including radon.

Compatibility

Xtra-Load[®] Alumite DPC is compatible with all materials with which it will be in contact with in 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. It may be softened by some solvent based products and is not compatible with pitch polymer damp proof courses and should not therefore be used in combination with these products.

If in any doubt of compatibility, please contact the Icopal Technical Department. Xtra-Load[®] Alumite DPC is fully compatible with a range of Icopal damp-proof courses and membranes.

Installation Details

General: 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 Icopal's instructions and normal good practice for the detailing of damp-proof courses as set out in 'BS EN 1996-1-1 : 2005', 'BS EN 1996-2 : 2006', 'BS EN 1996-3 : 2006' and their respective UK National Annexes, and 'PD 6697 : 2010' and must be in accordance with the relevant clauses of 'BS 8215: Code of practice for design and installation of damp-proof courses in masonry construction'.

Properties

Nominal Roll Length	8 m
Nominal Roll Widths	100 mm–1000 mm
Nominal Weight/unit area	4.05 kg·m ⁻²
Membrane Thickness	3.2 mm

Durability

When properly specified and installed, Xtra-Load[®] Alumite DPC will in normal circumstances remain effective during the lifetime of the building.

Application Procedure

1. Xtra-Load[®] Alumite DPC must extend through the full thickness of the wall leaf, including pointing, applied rendering or other material.
2. Xtra-Load[®] Alumite DPC to be laid on a fresh, even bed of mortar and perforations in adjacent courses of blockwork must be completely filled with mortar.
3. All lap joints in Xtra-Load[®] Alumite DPC must have a minimum 100mm overlap and sealed with Icopal Jointing Tape.
4. Xtra-Load[®] Alumite preformed cavity tray units must be used at stop-ends and all corners or changes in level of cavity trays.
5. Where a separate DPC is laid on each leaf at the base of a wall it is essential that the DPC is not allowed to project into the cavity allowing mortar droppings to build up and cause possible bridging of the cavity and moisture penetration across the cavity to the inner leaf.
6. Xtra-Load[®] Alumite DPC must not be damaged by cavity cleaning after installation.
7. 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.
8. When using Xtra-Load[®] Alumite DPC with boot lintels or similar, it is recommended that the material is installed to follow lintel profile.



EN 14967

13



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NBS Specification

Xtra-Load® Alumite is specified using the following:

Clause: F30/360, F30/380, F30/390

Product: Xtra-Load® Alumite DPC

Manufacturer: Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444.



Typical Specification

Damp-proof courses to be Xtra-Load® Alumite, including all preformed cloaks to be installed at stop-ends, corners and changes in level, as manufactured by Icopal Ltd, Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444 Fax: 0161 864 1178.

The damp-proof course to be installed in accordance with manufacturer's instructions and with the relevant clauses of 'BS 8215: 1991: Code of practice for design and installation of damp-proof courses in masonry construction', and 'BS EN 1996-1-1 : 2005', 'BS EN 1996-2 : 2006', 'BS EN 1996-3 : 2006' and their respective UK National Annexes, and 'PD 6697 : 2010'

Quality Assurance

Xtra-Load® Alumite DPC is manufactured under a Quality Management System approved to *ISO 9001: 2000* by BSI Quality Assurance.



QMS: Q5556

Delivery and Storage

Xtra-Load® Alumite DPC is delivered to site in rolls secured with a paper belly band. Rolls must be stored on end on a flat level surface, under cover and away from sources of direct heat. In cold weather conditions it is recommended that the materials are stored in a warm environment for at least 24hrs to ease application and unrolling. It must not be assumed that if the ambient temperature is at a level suitable for the application of brickwork that the DPC is at the same temperature if left out overnight.

Availability

Width (mm)	100	113	150	225	300	338	450	600	750	1000
Item Code	2001222	2003479	2001224	2001225	2001227	2003481	2001229	2001232	2001234	2001223
Roll Weight (kg)	3.2	3.7	4.9	7.3	9.7	11.0	14.6	19.4	24.3	32.4

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. 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.

Ancillary Products

Icopal Jointing Tape:

An acrylic double-sided self-adhesive tape protected by a silicone release paper for bonding Xtra-Load® Alumite DPC to a wide range of common building materials, including prepared masonry, blockwork and concrete.

Icopal Jointing Tape is suitable for bonding both smooth finished and sand surfaced dpc membranes.

Xtra-Load® DPC Fixing Strip:

A plastic strip 25mm x 2mm x 2m long pre-drilled at 150mm centres for permanently securing surfaced fixed cavity trays.

Xtra Seal® QD Bitumen Primer:

A quick-drying bitumen priming solution for the preparation of masonry, steel and concrete, prior to application of Icopal Jointing Tape.

Xtra-Load® Preformed Cavity Tray Units:

A range of polymeric preformed units for corners stop ends and changes in level for cavity trays. Special shapes are available to order.

Health and Safety

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

In normal use, Icopal damp-proof courses are not hazardous to health. However, they contain some materials for which Maximum Exposure Limits (MEL) or Occupational Exposure Standards (OES) have been established by the Health and Safety Executive. Please refer to the relevant health & safety data sheet. Refer to the separate health & safety data sheet for Xtra-Seal® QD Bitumen Primer.

Technical Services

Specialist advice and design guidance on all matters relating to Xtra-Load® Alumite is freely available from our Technical Department at the address below.