

## PRODUCT DATA SHEET

# Monarflex Ultra 300

## Reinforced Polyethylene Damp-proof Membrane

### Introduction

Monarflex Ultra 300 damp-proof membrane has been designed to withstand the rigours of a busy building site and to overcome the problems that can arise from using ordinary non-reinforced polyethylene, and is for use in solid concrete ground floors not subject to hydrostatic pressure, to protect buildings against moisture from the ground.

### Certification

Monarflex Ultra 300 has been independently site and laboratory tested by the British Board of Agrément and awarded BBA certificate number 95/3211.

### Description

Monarflex Ultra 300 consists of high density polyethylene (LDPE) reinforcing grid with films of extruded low density polyethylene (LDPE) laminated on both sides to form a monolithic membrane. This process gives Monarflex Ultra exceptional strength, and a very high tear and puncture resistance. The reinforcing grid is coloured green to aid site inspection.

### Performance and Properties

Roll Width	2m and 4m
Roll Length	25m
Weight	0.32kgm <sup>-2</sup>
Thickness	0.300mm (1200 gauge)
Water Vapour Permeability	0.38gm <sup>-2</sup> day <sup>-1</sup>
Water Vapour Resistance	540MNs <sup>-1</sup>
Tensile Strength (N 50mm <sup>-1</sup> )	380 <sub>(1)</sub> 448 <sub>(2)</sub>

(1) Machine Direction

(2) Transverse Direction

### Durability

Monarflex Ultra 300 damp-proof membrane is manufactured to last the lifetime of the building provided it is correctly installed and not damaged by subsequent building operations.

### Compatibility

Monarflex Ultra 300 damp-proof membrane is fully compatible with the range of Icopal damp-proof courses and membranes.

### Installation Details

Monarflex Ultra 300 should be laid with overlaps of at least 150mm, and sealed to produce a water-proof and vapour-proof joint. This can be achieved with the use of Monobond double-sided sealant tape.

The dpm should be continuous with the damp-proof course. Where Monarflex Ultra 300 and the dpc meet, they should be overlapped a minimum of 100mm and a sealed joint formed with an appropriate sealant tape, such as Monobond. Ensure the dpc is compatible with the dpm and sealant tape.

When laid below the slab Monarflex Ultra 300 should be laid on a bed of material which will not damage the membrane. When placed above slab, the surface should be free from debris and any projections which may damage the membrane.

Any damage must be repaired using patches of Monarflex Ultra 300, extending a minimum 150mm from the puncture and sealed with Monobond tape.



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### Penetrations

Where service ducts or pipes penetrate the membrane, joints are effected using Monobond LT sealant tape and top hat units with retention clips.

Complex junctions around penetrations such as, steel stanchions and concrete columns may be detailed and sealed by using a fully bonded membrane such as Alumite hot bonded, or Xtra-Seal Diamond self adhesive, bituminous membrane with an overlap of 150mm on each surface.

Detail work should be completed first. Once completed, Monarflex Ultra 300 may be laid and overlapped and sealed with Monobond LT sealant tape. The membrane should be rolled down firmly to ensure an effective bond and seal.

Steel, concrete and masonry surfaces should be primed with Xtra-Seal Quick Drying Primer prior to the application of the fully bonded membrane.

### Quality Assurance

Monarflex Ultra 300 is manufactured under a Quality Management System approved to ISO 9001: 2000 by BSI Quality Assurance.



Certificate No: Q5556

### Typical Specification

The damp-proof membrane to be Monarflex Ultra 300, as manufactured by Icopal Limited, Barton Dock Road, Stretford, Manchester M32 0YL. Tel: 0161 865 4444 Fax: 0161 865.

### NBS Specification

Monarflex Ultra 300 damp-proof membrane is specified using the following:

**Clauses:** J40/120, J40/130

**Product:** Monarflex Ultra 300 damp-proof membrane

**Manufacturer:** Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444 Fax: 0161 865 8433.

### Delivery And Storage

Monarflex Ultra 300 damp-proof membrane is delivered to site in rolls individually shrink-wrapped and labelled.

Rolls must be stored horizontally on a clean dry surface and under cover for protection from the weather and mechanical damage.

### Health And Safety

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

### Technical Services

Specialist advice and design guidance on all matters relating to Monarflex Ultra 300, 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.