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# Monarflex® Ultra 250

## Structural Waterproofing Systems

### Introduction

Monarflex® Ultra 250 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.

### Standard

Monarflex® Ultra 250 has been independently site and laboratory tested by the British Board of Agrément and awarded BBA certificate number 95/3211.



### Description

Monarflex® Ultra 250 consists of a reinforcing grid of 0.38 mm polyester (PET) thread 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.

### Intended Use

Monarflex® Ultra 250 is intended for use as a loose-laid damp-proof membrane in solid concrete ground floors not subject to hydrostatic pressure, to protect buildings against moisture from the ground.

### Resistance To Puncture

The products have a high resistance to puncture. On smooth or blinded surfaces they will not be damaged by normal foot or site traffic (eg wheelbarrows) but care must be taken to avoid damage during installation, particularly when handling building materials and equipment over the surface and when placing concrete or screeds, since they can be punctured by sharp objects.

### Resistance To Moisture

The membranes and the methods of jointing provide an effective barrier to the passage of moisture from the ground and will enable a floor to comply with the requirements of the national Building Regulations, if installed in accordance with the manufacturer's instructions.

### Properties

Roll Width	2.0 m ; 4.0 m
Roll Length	25 m
Weight/unit area	265 g·m <sup>-2</sup>
Membrane Thickness	0.25 mm (1000 gauge)
Water Vapour Resistance	526 MN·s·g <sup>-1</sup>

### Durability

Monarflex® Ultra 250 damp-proof membrane is manufactured to last the lifetime of the construction provided it is correctly installed and not damaged by subsequent building operations.

### Compatibility

Monarflex® Ultra 250 damp-proof membrane is fully compatible with the range of Icopal damp-proof courses and membranes.

### Installation Details

Monarflex® Ultra 250 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 250 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 250 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.

### Repair

Any damage must be repaired using patches of Monarflex® Ultra 250, extending a minimum 150mm from the puncture and continuously sealed with Monobond tape.

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# Monarflex<sup>®</sup> Ultra 250

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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 Imperma SBS hot-bonded, or Xtra-Load Diamond self adhesive, bituminous membranes with an overlap of 150mm on each surface.

Detail work should be completed first. Once completed, Monarflex<sup>®</sup> Ultra 250 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<sup>®</sup> QD Bitumen Primer prior to the application of the fully bonded membrane.

### Typical Specification

The damp-proof membrane to be Monarflex<sup>®</sup> Ultra 250, as manufactured by Icopal Limited, Barton Dock Road, Stretford, Manchester M32 0YL. Tel: 0161 865 4444 Fax: 0161 865. The membrane is to be installed in accordance to the manufacturer's instructions.

### NBS Specification

Monarflex<sup>®</sup> Ultra 250 is specified using the following:

**Clause:** J40/120; J40/130

**Product:** Monarflex<sup>®</sup> Ultra 250

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



### Quality Assurance

Monarflex<sup>®</sup> Ultra 250 membranes are supplied under a Quality Management System approved to *ISO 9001: 2000* by BSI Quality Assurance.



QMS: Q5556

### Delivery and Storage

Rolls are wrapped individually in shrink-wrap polythene. Each roll bears a product description label and the BBA identification mark. Rolls should be stored on side, under cover and on a flat, level surface, and protected from mechanical damage and heat sources. During storage exposure to direct sunlight is to be avoided.

### 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<sup>®</sup> Ultra 250 is freely available from our Technical Department at the address below.

### Availability

Item Code	Description	Roll Size
3002789	Monarflex Ultra 250	2 m x 25 m
3002788	Monarflex Ultra 250	4 m x 25 m

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.