

J40 Flexible sheet waterproofing/ damp proofing

To be read with Preliminaries/ General conditions.

110A HARDCORE BEDS

- Monolithic concrete blinding is preferred which should be regular, smooth and free of loose aggregate and sharp protrusions.

TYPES OF TANKING/ DAMP PROOFING

140A LOOSE LAID POLYETHYLENE GAS RETARDANT/ DAMP PROOF MEMBRANE

Manufacturer: Visqueen Building Products, Maerdy Industrial Estate, Rhymney, Tradegar, NP22 5PY. Tel: 0845 302 4758 Email: enquires@visqueenbuilding.co.uk Web: www.visqueenbuilding.co.uk

- Product reference: Visqueen Gas Barrier. Or equal approved.

Mass: 400 g/m², reinforced – The minimum mass as stated in BS8485:2015 is 370 g/m²
System components:

" Visqueen Double Sided Jointing Tape: a blue butyl based strip adhesive for bonding laps.

" Visqueen Foil Backed Lap Tape: a high performance single sided overlap tape for sealing laps

" Visqueen GR High Performance DPC: a gas resistant DPC.

" Visqueen Preformed Pipe Cloak (Top Hat) Units: a preformed unit providing an effective airtight seal around service pipe penetrations (see Visqueen drawing PFU-105).

" Visqueen Preformed Unit: three-dimensional preformed unit to prevent damp ingress to the internal skin at junctions or complex details. Standard or non standard types as shown on construction drawings.

" Visqueen Gas Resistant Detailing Strip: self adhesive strip for detailing complex shapes and junctions.

" Visqueen TreadGUARD 1500: providing membrane protection from damage from following trades, positioning of reinforcement, etc.

Joints & Installation:

Visqueen Gas Barrier should be installed on a blinded or smooth surface, and should be covered by Visqueen TreadGUARD1500, screed or other approved protective layer.

Visqueen Gas Barrier should be unrolled blue side up. Visqueen Double Sided Jointing Tape should be applied approximately 50mm from the edge; the next sheet of Visqueen Gas Barrier should be overlapped. For effective protection all laps must be a minimum 150mm and the joint should be sealed with Visqueen Foil Backed Lap Tape. Ensure that the membrane is clean, dust free and dry at the time of jointing. To avoid slip or shear planes it is not recommended to take membranes through the wall. In order to provide a continuous barrier across the cavity Visqueen GR High Performance DPC should be sealed to the membrane and taken through the wall.

Accessories:

Forming an effective barrier to damp and gas ingress in cavity walls may give rise to complex three dimensional details which, it is recommended, are preformed. Visqueen Preformed Units are designed to prevent damp and gas ingress.

To be fitted to manufacturers requirements and in accordance with the relevant British Standards and BBA certification.

190B SELF-ADHESIVE BITUMEN DAMP PROOF MEMBRANE/TANKING

Manufacturer: Visqueen Building Products, Maerdy Industrial Estate, Rhymney, Tradegar, NP22 5PY. Tel: 01685 804672 Fax: 01685 842580 Email: enquires@visqueenbuilding.co.uk Web: www.visqueenbuilding.co.uk

- Product reference: Visqueen Gas Resistant Self Adhesive Membrane (and Visqueen Heavy Duty Protection Board in locations/when recommended by Visqueen).
- Reference: Visqueen Gas Resistant Self Adhesive Membrane is a polymer modified bitumen membrane tanking and DPM system. Visqueen High Performance Tanking Primer (typical coverage 6 – 8m² per litre and typical drying time 1 – 5 hours).
Use/location: All internal or external masonry, including concrete surfaces that require protection from moisture ingress, radon, methane or other harmful ground gases by way of self-adhesive tanking or damp proof membrane at or below ground level.
- Preparation/Installation: Ensure Visqueen Gas Resistant Self Adhesive Membrane is installed following good practice set out in BS 8102: 2009. Surfaces to receive Visqueen Gas Resistant Self Adhesive Membrane may require preparation to remove all loose materials and sharp protrusions. The overall surfaces must be free from voids or holes and filled with a suitable cement/sand mix that will provide a good bond to the existing masonry surface. Finish, leaving no sharp projections which would otherwise damage the Visqueen Gas Resistant Self Adhesive Membrane. Allow all surface preparations to dry thoroughly prior to primer application.
- Primer: Apply Visqueen High Performance Tanking Primer to all areas to be treated; allow the primer to dry before applying Visqueen Gas Resistant Self Adhesive Membrane.
- Application: Floor application will require two operatives, one to progressively remove the release paper whilst the other presses the membrane onto the surface with a soft broom. Each roll must be installed working from the middle of the roll outwards ensuring all air bubbles are removed. The tanking / DPM membrane must overlap the inner wall DPC by at least 150mm and be fully sealed. Each applied membrane sheet must overlap at side joints by at least 150mm and ends by 150mm. Lap joints should be checked for security as work proceeds, rolling to ensure air pocket removal and good bonding. Wall application will require one operative. Starting at the top of the wall apply vertically. Applications to vertical surfaces will require the upper leading edge to be mechanically fixed using Zedex DPC Fixing Strips and Pins or secured in some other manner.
- Bonding: Self-adhesive system requires no additional bonding methods.
To be fitted to manufacturers requirements and in accordance with the relevant British Standards and BBA certification.

WORKMANSHIP

310A WORKMANSHIP GENERALLY

- Apply materials carefully to provide an impervious and continuous membrane.
 - Ensure that surfaces to be covered are clean, dry, smooth and free from voids, sharp protrusions and frost; do not apply when temperatures fall below 5°C alternatively store membrane in a warm location and warm during application.
 - Protect finished membrane using Visqueen TreadGUARD Boards to prevent puncturing.
 - Cover sheeting with permanent overlying construction as soon as possible. Immediately prior to covering check for damage and repair as necessary.
 - Where application is internal to vertical surfaces an inner block wall must be constructed with a minimum 50mm cavity progressively backfilled with fresh mortar.
 - All penetrations must be sealed by forming adequate patch repairs.

320 INSPECTION

Give reasonable notice before covering any part of membrane with overlying construction to allow inspection.

330 PRIMER(S)

- - Primer: Apply Visqueen High Performance Tanking Primer to all areas to be treated. Apply by brush or roller to achieve an even and full cover of the surface. Allow to

dry thoroughly before covering.

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- Reference: Visqueen High Performance Tanking Primer

350A ANGLES IN FULLY BONDED SHEETING

Reinforce all angles with a strip of the Visqueen Self Adhesive Membrane as specified, not less than 300 mm wide, applied before the main sheeting.

- Continue main sheeting around angles, extending not less than 150 mm on to adjacent surfaces.

360A JUNCTIONS WITH DPCS/CAVITY TRAYS

- Use/location: All areas where adjoining DPC extends beyond the wall or floor must be fully sealed to the DPM or tanking membrane. Expose concealed DPC as required.
- Preparation/Installation: Thoroughly clean away all mortar, debris and dirt from DPCs, including any projecting portions of DPCs that will cause joint formation difficulties. DPCs that project from the wall shall be fully lapped and sealed to the DPM or tanking membrane using Zedex DPC Jointing Tape. DPCs that do not project from the wall must be exposed to facilitate joint formation as required. If there is uncertainty on the method or practice of jointing the DPC to the DPM / tanking membrane seek the manufacturer's advice.

370A PIPES, DUCTS, CABLES, ETC.

- Use/location: Where these pass through DPM and tanking membranes, junctions must be made completely watertight using Visqueen PFU-105 Preformed Pipe Cloak (Top Hat) Unit fully bonded/ sealed to both pipes and sheeting. Finish the fix of these details using a stainless steel jubilee clip. NB Where non-standard Preformed Units are specified supply detailed isometric drawings fully dimensioned for each Preformed Unit required.
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- Reference: Visqueen Preformed Units

380C PROTECTION OF EXTERNAL VERTICAL & HORIZONTAL MEMBRANES

- Use/location: Cover DPM/ tanking with Visqueen TreadGUARD 1500.
- Preparation/Installation: TreadGUARD1500 protects loose laid membranes against damage from following trades.
All boards to be butt jointed and taped using Visqueen PRO Single Side Tape.
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- Reference: Visqueen TreadGUARD 1500