
Gas Protection Specification – 37 Creek Road, Hayling Island

Remediation Based on the Ground and Water Ground Gas Risk Assessment Report (GWPR6580/LR/June 2025) method statement:

37 Creek Road, Hayling Island, the site has been classified as requiring Characteristic Situation 2 (CS2) gas protection measures. This aligns with your proposal to use Visqueen gas protection materials.

1. Substrate Preparation

- Ensure all surfaces are clean, dry, and free of dust, oil, or sharp projections.
 - Concrete substrate to be smooth and free of voids prior to primer and membrane installation.
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2. Primer to Vertical Surfaces

- Apply Visqueen HP Primer to all walls, columns, and upstands to a height of 150 mm above finished slab level (SSL).
 - Apply by brush or roller at an approximate coverage of 6–8 m²/litre.
 - Allow primer to become tacky (not wet) before applying membrane or detail strip.
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3. Gas Barrier Membrane

- Install Visqueen Gas Barrier (VGB) directly to the top of the ground floor slab.
 - All overlaps to be minimum 150 mm, heat sealed using approved Visqueen welding equipment to achieve gas-tight joints.
 - Lay membrane flat and wrinkle-free with care to avoid damage during installation and following trades.
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4. Perimeter and Vertical Seals

- Apply Visqueen 300 mm Detail Strip to form a sealed junction between the horizontal Visqueen Gas Barrier and the primed wall upstand.
 - Ensure continuous adhesion with no creases or voids.
 - Reinforce all internal/external corners and changes in direction with preformed Visqueen corner units or overlapping detail strips.
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5. Pipe Penetrations, Thresholds, and Complex Details

- All service penetrations, ducts, thresholds, and corners to be sealed using Visqueen Detail Strip or Visqueen Top Hat Units as appropriate.

- Heat weld or seal using Visqueen Gas Resistant Jointing Tape to ensure continuous gas protection.
 - Confirm all penetrations are inspected and air-tested before backfilling or finishing.
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6. Integrity and Verification

- Installation to be undertaken by a Visqueen-approved installer or suitably trained contractor.
 - Visual inspection and smoke testing or integrity testing to be carried out by a qualified verifier in accordance with BS 8485 and CIRIA C735.
 - Record all test results and photographic evidence in the site validation report.
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7. Protection and Handover

- Protect completed membrane from damage by placing protective screed, insulation, or geotextile protection layer prior to any trafficking or screeding works.
- Any subsequent penetrations through the membrane must be sealed using approved Visqueen components.

Reference: Ground and Water Report GWPR6580/LR/June 2025 Gas Protection Level: CS2 in accordance with BS 8485:2015 + A1:2019 and CIRIA C665