STRUCTURAL WATERPROOFING HYDROLOCK NBS SPECIFICATION SHEET





HYDROLOCK

Specification in NBS Format

J40 flexible sheet waterproofing / damp proofing

SODIUM BENTONITE GEOTEXTILE WATERPROOFING SYSTEM

To be read with Preliminaries/ General conditions.

WORKMANSHIP

300 BENTONITE/GEOTEXTILE COMPOSITE WATERPROOFING MEMBRANE TO CONCRETE

- Manufacturer: JUTA UK LTD, Melton Grove Works, Church Road, Lytham, FY8 5PL. Tel: 01772 754177, E-mail: technical@juta.co.uk, Web: www.juta.co.uk
- Product reference: HYDROLOCK.
- Associated items & accessories: All necessary items shown on drawings or referred to
 in manufacturer's installation instructions including:
- Granular Bentonite (fillet at internal junctions)
- HYDROLOCK PASTE (slab perimeter junction with DPC/DPM, detailing,
- HYDROLOCK STRIP secured with HYDROLOCK RAIL (concrete construction joints and day joints etc)
- HYDROLOCK shall be lapped 100 mm at all edges. End laps shall be staggered by 300mm.
- Mechanical fasteners, in the form of washered nails (supplied by others, to be advised by manufacturer), or box stapes are used throughout the installation for securing HYDROLOCK (mainly at overlaps) as required.
- Generally mechanical fasteners are applied at 200-300 mm c/c.
- Wherever possible, HYDROLOCK shall be applied to form work, etc,prior to casting of concrete, to facilitate the peel-adhesion properly (automatic encapsulation of the HYDROLOCK geotextile fibres by the concrete) of the HYDROLOCK to the concrete. Care shall be taken when striking formwork, to prevent undue damage to the peel-adhered HYDROLOCK

310 WORKMANSHIP GENERALLY

- Apply materials carefully to provide a completely impervious, continuous membrane.
- Ensure that surfaces to be covered are clean, dry, free from voids, sharp protrusions and frost.
- Protect finished membrane adequately to prevent puncturing during following work.



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• Cover waterproof membrane with permanent overlying construction as soon as possible to protect from moisture, excessive temperatures and prolonged exposure to direct sunlight. Immediately prior to covering check for damage and repair as necessary.

315 INSTALLATION OF HYDROLOCK

- To be in accordance with instructions and recommendations published by JUTA UK LTD.
- To be carried out by operatives with proven knowledge and experience of the product.

316 FOLLOWING OR RELATED CONSTRUCTION WORK

- Ensure that all following or related construction work (e.g., placing of reinforcement, insulation, casting of slabs) is carried out in accordance with the relevant recommendations of JUTA UK LTD such as not to damage or otherwise adversely affect the performance of the system.
- Coverage per coat (minimum): 8 m² / litre.
- · Curing: Allow to dry thoroughly before covering.

320 INSPECTION

· Inform inspector in reasonable length of time before covering any part of membrane with overlying construction, to allow inspection,

340 SUBSTRATE PREPARATION:

Prior to installing HYDROLOCK under main floor slab areas, complete all required sump pits and ground beams. Substrate may be
concrete, earth, sand, pea gravel or crushed stone. Earth and sand substrates should be compacted to a minimum of 85% Modified
Proctor density. Crushed stone should be smooth and without sharp deflections or pockets.

345 CONCRETE WALL SURFACE PREPARATION

• Wall surface must be properly prepared before HYDROLOCK is installed. Areas of surface honeycombing or indentations should be filled with HYDROLOCK PASTE. Protrusions of over 15 mm should be knocked off smooth with surface.

360 JUNCTIONS WITH DPCS/CAVITY TRAYS:

- Identify position of adjoining damp-proof courses and expose to view where concealed. Thoroughly clean away all mortar, debris and dirt from vicinity of DPCs, including any project portion of dpcs.
- DPCs which project from the wall: Terminate at ground level, integrating the HYDROLOCK with a damp proof course/cavity tray (as perarchitects arrangement), by extending the DPC to overlap HYDROLOCK a minimum of 150 mm. The HYDROLOCK / DPC lap should be enhanced by the inclusion of a 5x75mm fillet of HYDROLOCK PASTE centrally located.

365 INTERNAL CORNERS

• Apply a 40 x 40mm continuous fillet of HYDROLOCK Granules.

370 HORIZONTAL PENETRATIONS PIPES, DUCTS, CABLES, ETC:

 Install HYDROLOCK, cutting a close fitting around penetration. Apply a 40 mm fillet of HYDROLOCK paste at junction between HYDROLOCK and penetration. Prior to pouring of concrete wall install a length of HYDROLOCK STRIP (ensure Strip has min 75 mm concrete cover) around the pipe.



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375 VERTICAL UNDERSLAB PENETRATIONS:

• Form a 40 x 40 mm chase in substrate around penetration and fill with HYDROLOCK Garanules. Install HYDROLOCK, cutting a close fitting around penetration. Apply a 40 mm fillet of HYDROLOCK paste at junction between HYDROLOCK and penetration. Prior to pouring of concrete slab install a length of HYDROLOCK STRIP (ensure STRIP has min 75 mm concrete cover) around pipe using waterbased adhesive or tie wire to act as a puddle flange.

380 BACKFILLED WALLS:

- Install HYDROLOCK on concrete walls prior to backfilling, with dark grey (woven) geotextile surface facing against the wall.
- BACKFILL MATERIAL: Backfill material shall be of compactable soils and free of construction debris. As test 13, BS 1377, backfill shall be clean, well graded, and compacted every 300 mm to 85% modified proctor (as defined by ASTM 1557), and meet these general specifications:
- 1) No rocks, stones or boulders larger than 50 mm.
- 2) 90% minimum soil particles smaller than 5 mm.
- 3) 10% maximum soil particles finer than 74 micron (200 mesh).



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