

KONTRACT 8

General purpose cavity drainage membrane for the isolation of damp/wet walls above and below ground

DESCRIPTION

Kontract 8 is a high density polyethylene membrane incorporating 8 mm studs which allow the creation of a continuous drainage pathway for water in basement floors and walls and/or the isolation of damp walls above ground level. The dry surface created allows rapid project completion via dry lining and screeding or timber floor finishes.

Kontract 8 has the following properties:

- Stud height 8 mm, drainage volume 5.5 litres/m²
- Sheet thickness 500 μ m, density 0.5 kg/m²
- Excellent low and high temperature stability
- 120 kN/m² load bearing capacity
- High durability and water resistance
- Approved by the British Board of Agrément

SPECIFICATION

Kontract 8 is suitable for use in accordance with BS 8102:1990 to provide Type 'C' drained protection to structures below ground giving a Grade 3 or 4 dry environment suitable for domestic or commercial use.

It is essential that **Kontract 8** is used in conjunction with a suitable sump and pump facility (unless passive drainage is available on one side of the building) and that this is maintained throughout the lifetime of the installation. To control the risk of condensation it is recommended that all basements should be provided with mechanical ventilation to ensure adequate air circulation in accordance with the guidelines in Approved Document F (Building Regulations 2005).

INSTALLATION INSTRUCTIONS

1.0 Preparation

Ensure all wall surfaces are free from sharp protrusions and reasonably level. Note: on uneven walls **Kontract 8** can still be applied but plasterboard studs will need packing out. Alternatively, a free-standing timber or metal frame fixed to the floor and/or ceiling can be created. In new basements ensure enough time has been allowed for the structure to develop sufficient strength before installation. In existing basements



remove any unsound plaster, laitance, salts etc. and make good. If mould or masonry fungi are present the substrate should be treated with an appropriate fungicidal wall solution (e.g. Wykabor 10, Wykabor DB).

Water entering the basement via walls or floors must be able to drain freely to a point of removal. This requires that there should be a free fall towards the outlet point or a drainage channel made around the perimeter of the floor. In all cases the design of the drainage provision should be checked before laying the floor membrane by a FLOOD TEST after which no ponding of water should be evident to a depth of more than 5 mm at any point. Further advice concerning drainage design and sump/pump installations is available from the Wykamol Technical Department.

2.0 Membrane installation

Kontract 8 is fixed to the wall by drilling through the membrane studs to a depth of 70 mm using a 10 mm drill bit and gently hammering home the Brick Plugs which have Wykamol Rope applied around the shaft to form a water proof seal between the fixing and the membrane surface (alternatively use Wykamol Plug Seals). Intervals between fixings should be 450 - 600 mm and otherwise in a pattern to suit the final method of plasterboard erection. Once the first length of membrane is fixed, it is overlapped by the flanged edge (flat area – no studs) of the next piece and the overlap sealed with Wykamol Tape (ensure the membrane surface is dry and, in cold conditions, warm the membrane surface to ensure good adhesion). Flange joints should always run vertically with the flange positioned in front of the preceding width of membrane. In the case of horizontal joints (stud-to-stud) the lower sheet is always positioned to the front with an overlap of at least three studs and the two surfaces are sealed with Wykamol Rope (two separate beads in very wet conditions).

When dealing with internal and external corners cut and fold the membrane as necessary and re-seal cut edges and any inserted pieces using Tape, Overtape and/or Wykamol Corner Detail. In the case of door/window openings where the thickness of the membrane may cause problems in regard to standard frame dimensions etc. **Kontract 8** can be bonded to standard dpc material placed within the reveal, itself fixed to the wall using Brick Plugs as above. The dpc membrane should be run under **Kontract 8** to create an overlap of ca. 100 mm before sealing the joint using Rope and Overseal Tape.

Services or pipework penetrating through walls lined with **Kontract 8** can be joined to the membrane by using Wykamol Rope to seal the gap (5 – 10 mm) and overlaying a patch of **Kontract 8** sealed to the service with Rope and Overseal Tape.

Floors and Wall/Floor Joints

Kontract 8 is rolled out down over the floor (no fixings) and sealed at flange edges using Wykamol Tape. Other joints are sealed using Overtape. At wall/floor junctions the membrane can be cut flush and the gap sealed using Corner Detail. Alternatively, where a wall membrane is not being installed, the floor membrane can be returned up the wall by c. 100 mm and cut flush with the top of the finished floor. Regular maintenance of all gullies, sumps and pumps must be conducted to ensure that a build-up of water does not occur behind the membrane.

Above dpc level **Kontract 8** can be left as an 'open' or ventilated system with water vapour vented to the room (this is facilitated by leaving a 10 mm gap at the top, and a 20 mm gap at the bottom of the wall then finishing with off-set or ventilated covings/skirtings).

3.0 Finishing Ventilation

Kontract 8 cavity drainage membrane can provide a dry, warm and habitable living space in basements and other areas suffering chronic damp conditions. However, it is equally important to ensure that areas which lack natural ventilation are provided with adequate means of condensation control, especially in wet areas such as kitchens, bathrooms etc. This is normally best dealt with through the provision of an effective mechanical ventilation system (please consult the Wykamol Technical department for further advice).

4.0 Walls

Kontract 8 is normally finished by dry lining. Timber battens can be fixed to the wall via the pre-drilled screw threads in the Brick Plugs or plasterboard can be fixed to a timber or metal free-standing frame.

After fixing plasterboard and applying a suitable finish plaster permanent decorations such as vinyl papers or oil paints can be applied without delay.

Wall-mounted fittings (except lightweight items) should be fixed where possible into battens. For heavier items, which necessitate holes being made in the membrane, use proprietary resin anchor fixings and seal the gap between the fixing and the membrane using a water resistant flexible sealant such as Wykamol Mastic or Rope.

5.0 Floors

Under normal operating conditions **Kontract 8** is not affected by underfloor heating. If required, expanded polystyrene insulation boards are laid over the membrane prior to laying T&G

floorboards or screeding in accordance with BS 8204-1:2003 (minimum 50 mm). Proprietary anhydrite screeds may also be suitable and allow screed thicknesses less than 50 mm (contact Manufacturers for further advice).

PRODUCT DATA

Kontract 8 is available in rolls as follows:

2.0 x 20 m = 40 m² (translucent/white)

2.4 x 20 m = 48 m² (translucent/white)

2.4 x 20 m = 48 m² (opaque/brown)

For each roll of membrane a range of ancillary products will normally be required namely Tape, Rope, Mastic, Brick Plugs, Corner Detail. The quantities can be advised at the time of ordering based on the project details and ratio of floor to walls etc.

In basements special measures may be required to create suitable drainage to assist the removal of water to the sump location. Our technical department will be pleased to give advice in this area (Aqua Channel, Aqua Drain, Sump kit etc.).

Storage

Rolls of **Kontract 8** and all ancillaries should be stored on site in dry conditions away from sharp objects, direct sunlight and high temperatures. Keep **Kontract 8** away from areas where naked flames may be used.

Health & Safety

No specific hazards are likely to arise in the use of Wykamol **Kontract 8** membranes or ancillaries (neither the membrane or tapes mentioned in this Data Sheet are classified as hazardous in respect to CHIP II Regulations 1999). However, general precaution should be exercised in the use of drills etc. taking particular note of the special risks associated with confined spaces (basements) with restricted means of access/egress.

Technical Advisory Service

The Wykamol Group are committed to excellence in product design and manufacture and the information provided in this data sheet is intended to guide professional contractors and specifiers in the appropriate use of **Kontract 8** to ensure a successful basement tanking or damp proofing project. If any further advice is required please consult our Technical Department who will be pleased to answer your questions and/or recommend a suitably qualified contractor able to provide a full design and fitting service.

Issue Date : January 2009



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