

# AQUASTOP TANKING

## CEMENTITIOUS WATERPROOFING SYSTEM

### FUNCTION

Slurry applied treatment used in the control of lateral penetration of water in walls below ground level. **Aquastop Tanking** is not sulphate resisting.

### COMPOSITION

Cement, finely graded quartz sands and inorganic chemicals. **Aquastop Tanking** contains an acrylic polymer, which imparts improved bonding, abrasion resistance and improved strength.

### DESCRIPTION

Grey powder. Bulk density approx. 2000 kg/m<sup>3</sup>.

### USES

Where external ground level is above internal floor level it is usually necessary to provide a barrier to penetrating moisture in conjunction with an injected DPC. In such instances **Aquastop Tanking** may be applied directly onto brickwork. In cellars and other areas of high hydrostatic pressure and where it is advisable to use the **Aquastop Tanking** in conjunction with a sulphate resisting backing render.

### COVERAGE

For normal dampness one brush coat applied at the rate of 2.0 kg/sq. metre. For severe hydrostatic pressure two coats each of 2.0 kg/sq. metre giving a total of 4 kg/sq. metre.

### APPLICATION

**Surface Preparation:** The surfaces to be treated must be totally free from dust, dirt, loose material, plaster, bitumen, oil, paint etc. In particularly difficult circumstances sand

blasting may be the most effective means of providing a clean surface for treatment. Where **Aquastop Tanking** is to be used in conjunction with water repellent chemicals for dampcoursing, contamination of the surfaces with water repellent prior to tanking must be avoided. Perished areas of brickwork or concrete should be cut out, down to solid structure, and any iron or steel rods cut back to as least 2cm below the surface. Uneven surfaces should be levelled with a 3:1 sand:sulphate resisting Portland cement mix which should be allowed to cure before applying **Aquastop Tanking**

**Backing Render:** In cellars and other areas of high hydrostatic pressure the surface should be prepared as indicated above. The mortar joints should be raked out and, if necessary, the surface hacked to provide a sound mechanical key for the backing render. The backing render should be 3:1, washed sharp sand:sulphate resisting Portland cement (SRPC) applied to a minimum thickness of 10mm. Allow to cure for 24 hours before applying **Aquastop Tanking**.

### FINISHING

Replastering is an integral part of the tanking specification it protects **Aquastop Tanking** from impact damage and reduces the incidence of condensation. Wykamol Renovating Plaster is particularly recommended as a means to avoid cold surfaces but a sand:cement plaster incorporating and integral waterproof may also be used. Replastering should be carried out in accordance with BS5492:1990 and with the appropriate Wykamol replastering specifications data sheet as soon as the final **Aquastop Tanking** coat has set to form a firm base (12-48 hours). If the **Aquastop Tanking** is left longer prior to replastering an SBR - modified cement slurry may be required to overcome low suction in the substrate.

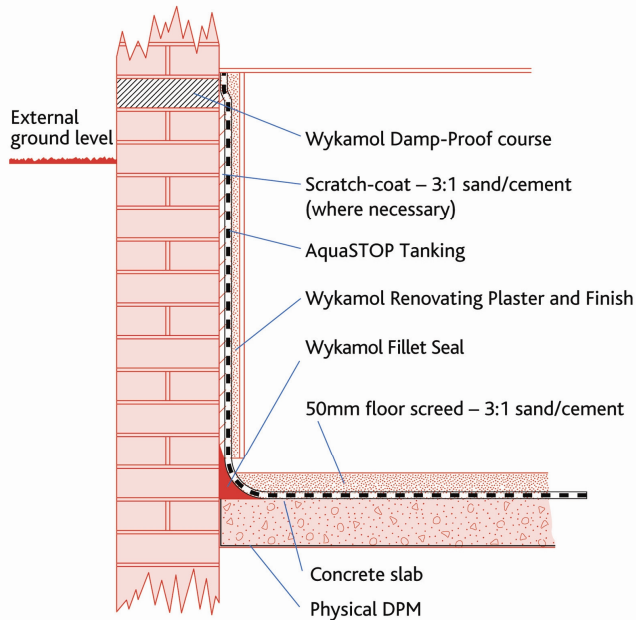
N.B. Gypsum based plasters must not be used in direct contact with **Aquastop Tanking**. Use only stainless steel metal angle heads to form details on external corners etc. (use Wykamol SBR Latex modified mortar to fix).

**Mixing:** **Aquastop Tanking** is supplied as a powder and must be mixed with water to form a slurry to use at the rate of 7.5-8.0 litres of water to each 25 kg bag.

(ALWAYS ADD THE WATER TO THE POWDER NOT THE OTHER WAY ROUND).

Once mixed the slurry will remain workable for approximately 80 mins. Do not attempt to prolong usable time by adding further water.

**Coating: Aquastop Tanking** must be applied to a saturated surface to ensure full effectiveness. All surfaces to be treated must be wetted thoroughly several times making sure, however, that no standing water remains on horizontal surfaces. The slurry should be applied to vertical surfaces using a brush. On horizontal surfaces use a broom. It is essential that the entire surface is covered ensuring that all crevices and irregularities are filled. Particular attention should be paid to the junction between the floor and wall.



Wall/Floor Junction (application diagram)

**Wall/floor and corner joints:** Detailing at the wall floor joint must be carried out to a high standard. Wykamol Fillet Seal is a cementitious mix designed specifically for the task. Alternatively two coats of an Wykamol SBR primer bonding coat are applied (1 part SBR:2 parts cement by volume). As soon as possible thereafter a 3:1 sand/cement mix incorporating a good quality sharp washed sand and gauged with SBR:water (1:1) is used to form a fillet at least 50 mm high and 50 mm deep at the wall/floor joint. The fillet is trowel applied taking care not to pierce the Wykamol SBR primer coat. The edges of the fillet should be “feathered” to give a smooth curved appearance (this may be achieved by using a glass bottle). As soon as the fillet has set firm the application of **Aquastop Tanking** should proceed (if the SBR-modified fillet fully cures a fresh coat of bonding primer will be necessary to re-key the surface). Where the **Aquastop Tanking** is not being used over the whole floor area it must extend a minimum 250 mm across the floor (the second coat should stop 50 mm back from the first). If a sandwich bitumen membrane is being

incorporated this may be applied directly to the **Aquastop Tanking** and screeded in the normal manner. N.B. Bitumen emulsions are unsuitable for these situations. N.B. If the wall:floor joint is a source of active water leaks cut a square-shaped chase (not a v-notch) at the base of the wall and fill with Wykamol Fillet Seal before proceeding.

**Curing:** The coating will remain soft for about 24 hours so avoid contact during this time. Where necessary, a second coat can be applied, once the first one has begun to harden. Protect from frost, direct sunlight and drying winds for 24 hours. Treated surfaces may be rendered after 24 hours and will become fully effective within 8 days. **Aquastop Tanking** is not a final finish for floors which should be screeded or sealed with an abrasion resistant coating.

**Fixing:** Anything which disrupts the continuity of the coating will give rise to a weakness in the tanking. Wherever possible fixing of items to tanked walls should be avoided. Where fixings have to be made, provisions should be made in advance by drilling oversized holes and plugging with Wykamol HydraPlug, then inserting plastic plugs whilst still soft or drilling a correctly sized hole after it has set. The plugging medium should be made flush with the wall and **Aquastop Tanking** simply brushed over as normal, taking care that the plugged hole is deep enough to take the screws being used. Pipework passing through the walls should be sealed with a propriety silicone sealant. Holes for light switches, sockets, conduit, electrical wiring etc., should be chased out and a coat of **Aquastop Tanking** applied to the cavity. Where extra fixtures are to be made the procedure set out above should be followed.

#### **Decoration:**

On completion of the **Aquastop Tanking** system it is important that the system is allowed to dry out naturally without the use of radiant or fan heaters, dehumidifiers or forced ventilation (convector heaters to provide temperatures above 10°C may be acceptable). Once the surface is substantially dry, paint or other finishes may be applied, it is essential that all decoration is vapour permeable and it is suggested that an emulsion paint is used (e.g. breathable replastering paint). In tanked basements the provision of adequate background heating and ventilation is essential to ensure condensation risks are controlled.

## PRODUCT DATA

Appearance Pale grey powder.

### Coverage:

Surface type	1st coat	2nd coat
Coarse surface type (internal)	2.0kg/m <sup>2</sup>	2.0kg/m <sup>2</sup>
Smooth surface type (internal)	1.5kg/m <sup>2</sup>	1.5kg/m <sup>2</sup>
External	1.5kg/m <sup>2</sup>	1.5kg/m <sup>2</sup>

<b>Pack Size</b>	Aquastop Tanking 25kg
<b>Shelf Life:</b>	6 months
<b>Storage:</b>	Store in a cool dry place
<b>Water addition:</b>	7.5-8.0 litres/25kg bag
<b>Working time:</b>	80 mins @ 20°C
<b>Initial set:</b>	6 hours

## TECHNICAL INFORMATION

This data sheet is intended for the use of professional remedial operators and is compiled accordingly. For further advice on the use of Wykamol products, contact the Technical Department at the address below.



## Wykamol Group

Unit 3 Boran Court, Network 65 Business Park, Hapton, Burnley. BB11 5TH

t: +44 (0)845 400 6666 f: +44 (0)845 400 3333

www.wykamol.com e: sales@wykamol.com