

## **Preventing Water Ingress –Permanent Formwork Construction Systems**

### **Products Required:**

**Maxsealflex- Maxmesh- Maxjoint Elastic- Maxplug- EASYBOND**

### **Floor/wall joint:**

#### **GUIDE TRACK on concrete floor:**

##### **Even surface:**

Wet surface and apply Maxsealflex at the rate of 1mm thickness to the area covered by the Guide Track extending by 50mm past the area covered by the Track on to floor.

Place Guide Track and secure as specified.

##### **Uneven surface:**

Wet surface and apply Maxjoint Elastic to external edges of area covered by Guide Track at a thickness of no less than 6 mm x minimum width of 15 mm. Place Guide Track and secure.

#### **After placing wall sections and filling with concrete:**

Scuff the PVC Formwork (16grit) Wet wall floor area at base. apply Maxsealflex at the rate of 1 Kg/m<sup>2</sup> thick to an area from 100mm above floor/wall joint to 100 mm on the floor. Total 200mm, place Maxmesh (200mm x 50 mtr roll)

Allow to cure overnight, wet area and apply second coat at rate of 1 Kg/m<sup>2</sup> covering the mesh.

#### **DIRECT POUR to Concrete Floor:**

Wet floor and apply Maxsealflex at the rate of 1mm thick to the area extending by 50mm past the area covered by the pour. After curing of concrete wet wall floor area at base.

Apply Maxsealflex at the rate of 1 Kg/m<sup>2</sup> thick to an area from 100mm above floor/wall joint to 100 mm on the floor. Total 200mm, place Maxmesh (200mm x 50 mtr roll)

Allow to cure overnight, wet area and apply second coat at rate of 1 Kg/m<sup>2</sup> covering the mesh.

**Water penetration at floor/wall joint. – use Maxplug to stop waterflow – proceed as wall/floor joint recommendation**

#### **Return Wall Vertical Guide Track :**

Wet surface and apply Maxsealflex at 1mm thickness approx. to **Guide Track**, fasten to wall as normal. Remove all excess using wet sponge. Total adhesion and waterproofing.

#### **Vertical wall joints, within Permanent Formwork:**

If required, seal all internal or external vertical joints if the **structure is used for liquid containment** ensure that total floor area is coated using Maxsealflex at the rate of 1 kg/m<sup>2</sup> Allow to cure overnight, wet area and apply second coat Maxsealflex at the rate of 1 kg/m<sup>2</sup>.

**Or below ground retention.** Mask if required. Wet surface, apply Maxsealflex at the rate 1mm thickness over the joint area (min. 50mm), place 50mm blue Mesh, allow to cure overnight. Wet surface apply second coat at the rate of 1mm thickness.

#### **WALL PENETRATIONS: Panels:**

**WINDOWS:** Seal opening all round using Maxsealflex (1.5 Kg/m<sup>2</sup>) as well as 50mm around external and internal wall area. Immediately place capping. Apply Maxsealflex over capping/wall joints and place 50mm maxmesh, allow to cure overnight, apply second coat Maxsealflex.

## **PIPES:**

**Cast In- Coat** all surfaces of the puddle flange using Maxsealflex including any pipe sections attached ready to be cast into the wall extending minimum of 50mm past wall pipe interface. This will allow sealing of external wall section to pipe using embedded mesh for below grade installation.

**If additional wall flanges are used, coat flange internal area and wall area using Maxsealflex and push flange firmly to wall.**

## **CORED:**

**Centre pipe using spacers, core should not be less than 5mm or more than 20mm larger than pipe. Apply Maxsealflex to internal surface minimum 50mm from edge and minimum 50mm around core. Create a rebate (foam backing rod) of not less than 5mm for spaces up to 10mm in width, any spaces over 10mm should have a rebate of *not less than half the width of the space.***

**Wet surface, fill using Maxjoint Elastic. Allow to cure (min. 3 days) overcoat using Maxsealflex, extend to minimum of 50mm on wall and pipe.**

**Void around pipe can be filled using Maxgrout or expanding foam prior to installing Maxjoint Elastic..**

**If additional wall flanges are used, coat flange internal area and wall area using Maxsealflex and push flange firmly to wall.**

**EXTERNAL JUNCTIONS:** Apply Maxsealflex (1.5kg/m<sup>2</sup>, ensure continuous coverage) to underside of *Window Sill* as well as wall surface, screw fix *W/S* to lower panel. Prior to placing upper panel apply Maxsealflex (1kg/m<sup>2</sup>, ensure continuous coverage) to upper side of *W/S* as well as across and up the slab rebate as well as both sides of the upper panel surface. Place upper panel, seal floor/wall junction, as per wall/floor joint recommendation.

## **GENERAL:**

To obtain superior adhesion, in the case of PVC or Permanent Formwork, the areas to be coated, must be abraded (16 grit ripper disk, wire brush, coarse sandpaper) just to roughen the surface.

**Total Yield per 35 Kg Kit: 20m<sup>2</sup> at 2 coats finish.**

**Yield per kit: MESH application: 70 lin/m<sup>2</sup> for 200mm mesh.  
0.5 Kg/lin./metre**

## **WATERCONTAINMENT:**

We recommend the application of Maxsealflex at the rate of 1kg/m<sup>2</sup> percoat (2 coats) to the concrete floor slab. Can be applied immediately after placing the concrete (green) before installation of above. Given the potential for movement due to changing pressures in line with waterlevels, within the vertical panels of the tank, we strongly recommend the application of Maxsealflex and 50mm Maxmesh along all vertical joints.

**Allow 14 days for full cure prior to filling with water.**

## **Finishing:**

If finishing is required a single coat of EASY BOND at the rate of 1 kg/m will provide a bonding bridge. NO need for scuffing. Anything that can be applied to a mortar surface can be applied to EASY BOND, Tiles, Stones, any render, Paint .

See brochure attached.

**N.B:** As each application has different requirements we offer a job specification and inspection service.