

## SPECIFICATION AND METHODOLOGY FOR OLD TERRACE WATERPROOFING

### Observation

### Recommendation

- The old cover concrete and system should be examined for its soundness.
- The slopes shall be checked for its effective drainage of rain water.
- The surface cracks shall be fixed with polymer modified cementitious crack filling compound.
- Injection pressure grouting is carried to fill the voids in the concrete by drilling holes at regular intervals c/c 1mtr by admixing Grout additive and integral water proofing admixture.

### Line of Action

- Dismantle the old system
- Surface preparation
- Fill up all the cracks
- Injection pressure grouting
- Fixing down take pipes
- Fixing joint tape
- Membrane coating
- Final layer of cement mortar screed
- Coving

### Specification for terrace waterproofing

- The product should be flexible, crack bridging.
- Apply two coats of waterproofing system to the terrace.

The product should demonstrate following properties

- Crack bridging -up to 1.5mm
- Tensile elongation -up to 80%
- Vapour diffusion- approx. 1000μ
- UV resistant
- Water head pressure- up to 7 bar

Proper care should be taken for all critical areas like wall slab joints etc.

### Products recommended:

#### 1) **MYK Aquafin-2C**

It is a polymer modified, Cementitious easy to apply coating. It is a two component material. It bonds on wet surface without priming.

**Pack Size:** 35 Kg Composite Pack,  
24 Kg Powder + 11kg liquid polymer

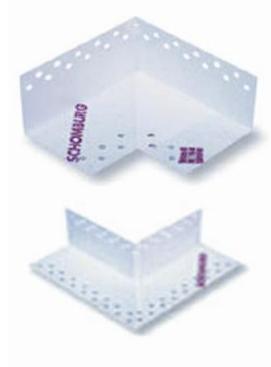
#### **MYK Aso-Joint-Tape 2000**

It is a composite Polypropylene based tape with very high elongation, tensile strengths. Ideally suited to guarantee a long term watertight joint, pipe and sieve penetrations etc.

**Consumption:**  
**MYK Aquafin 2C** to be applied at 3 Kg /m<sup>2</sup>.



**MYK Aso Joint Tape 2000**



**MYK Aso Joint Tape for Corners**

### **Methodology**

- Step-1:- Surface preparation
- Step-2:- Procedure for injection pressure grouting
- Step-3:- Fixing of **MYK Aso Joint Tape 2000**
- Step-4:- Mixing of **MYK Aquafin 2C**
- Step-5:- Application of **MYK Aquafin 2C**

### **Surface preparation**

- The hollow Brick Back coba / metal coba portion should be removed carefully by chipping to the entire depth or upto the unsoundness area.
- Proper preparation of the substrate is essential for better adhesion with the forthcoming surface.
- The surface should be clean, sound and free from loose particles.
- If any contamination such as oil, grease etc is removed by a mechanical mean like wire brushing, vacuum cleaning.
- If any cracks, more than 1mm then make a U-groove 20mm width and 25mm depth and filled with suitable repair mortar.

The wall and slab joints should be cleaned / levelled to have a uniform edge to receive the **MYK Aso Joint Tape 2000** treatment.

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### **Procedure of Injection pressure grouting**

- Drilling 12mm diameter holes with electric drilling machines along the honey combed area and floor wall joints @C/C 1 meter to a depth of half of the thickness of the slab and fixing PVC nozzles of 10mm dia or less in place using quick setting compound **MYK Fix 10 S**.
- Pressure grouting should be carried by using hand operated grouting machine of pressure 3.5 Kgs/cm<sup>2</sup> through the nozzles starting from one nozzle and stopping the operations when the grout starts coming out from adjacent nozzle, this is done similarly in all the nozzles.
- The Grouting is carried by admixing Grout Additive **MYK Grout Add** @ of 250 gms per bag of cement and Integral waterproof admixture/ **MYK Proof WP 10** @ 2% by Wt of cement by maintaining W/C ratio 0.45 for making the concrete water tight.

### **Mixing of MYK Aquafin 2C:**

- Take the 2/3<sup>rd</sup> content of the liquid component (The second liquid component of **MYK Aquafin 2C**) into a clean container and add **MYK Aquafin 2C** powder into it.
- Stir well with mechanical means @ 500-700 rpm until lump free homogeneous mix is obtained.

### **Application of Aso Joint Tape 2000**

On the cleaned joint and floor junction **MYK Aso Joint Tape 2000** is placed on the joint or up stand in such a way that 50% is on the slab surface and 50% on the wall. It can be sandwich with the mixed waterproofing material (**MYK Aquafin 2C**).

### **Application of MYK Aquafin 2C**

- The substrate should be pre-wetted before the actual application is undertaken.
- Care to be taken that there is no excess water standing on the floor.
- The mixed material should be applied evenly @ 3 kg/m<sup>2</sup> in two coats.
- The first coat should be applied in horizontal direction.
- The second coat is applied in vertical direction as soon as the first coat is sufficiently hardened.

#### **By brush:**

The application of **MYK AQUAFIN-2C** is a simple brush application.  
Use soft bristle brush.

#### **By spray:**

**MYK SCHOMBURG** recommends the use of peristaltic motion spray pumps, which are the most, appropriate, Practical and economic method for **MYK AQUAFIN-2C** application on large area applications. Please, Refer to **MYK SCHOMBURG** for list of approved spray equipment.

### **Curing of MYK Aquafin 2C**

Unlike other cementitious-based materials, **MYK AQUAFIN-2C** is a self curing product and does not require any post curing.

The coated substrate/area can be exposed to:

- Rain after approximately 3 hours
  - Pedestrian traffic after approx.1 day
  - Pressure water after approx 7 days
  - Fixing of tiles etc after 1 day
- at ambient temperatures of +20°C and 60%relative humidity.

### **WATCHPOINTS**

- All fittings like drain water pipes etc should be fixed prior to the treatment as these are the weak portions and may tend to leak. If fixed afterwards, should be treated with **MYK Aquafin 2C** and finished.
- All the critical areas like construction joints, down take pipes should be treated properly before doing the application of **MYK Aquafin 2C**.
- The waterproofing coating shall be continued over the parapet wall to the top.
- The drain water pipe opening shall be coated from inside to a distance of 3 inches.
- All movements on the coated surface should be strictly as per the directives of the technical data sheets, however it is best to avoid any rough handling of the substrate, contact of pointed objects etc should be avoided.
- Do not expose the application to water during the setting time.

### **HEALTH & SAFETY**

- Adopt health & safety regulations in accordance with local laws. Care should be taken when handling.
- **MYK AQUAFIN-2C** as it may cause irritation due to its cementitious nature (please refer to Material Safety Data Sheet for specifics).
- As typical on most job sites, applicators should wear protective clothing and gloves. Those handling and mixing **MYK AQUAFIN-2C** should wear a facemask. Safety shoes and helmets must be worn by staff at all-times.
- **MYK SCHOMBURG** recommends the enforcement of stringent health and safety measures on all job sites.