

## SPECIFICATION AND METHODOLOGY FOR SWIMMING POOL

### Pool Criteria:

- Fully cured – 28 days
- Hydro testing
- Treated if leakages (by injection pressure grouting)
- Size of pool – up to 7mtr
- Water head – up to 7 bars

### Specification for Swimming Pool waterproofing:

- The product should be flexible, high elongation, crack bridging.
- Pour and laying waterproofing treatment to the swimming pool, all complete with special treatment to pipe sleeves, lights etc.

The product should demonstrate following properties

- Crack bridging -up to 1.5mm
- Tensile elongation -up to 80%
- Adhesion strength - approx. 1.5N/mm<sup>2</sup> at 28 days
- Tensile strength - 1.3N/mm<sup>2</sup>
- Vapour diffusion- approx. 1000μ
- UV,age and frost resistant
- Water head pressure- up to 7 bars
- Non-toxic

### 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 + 11 kg liquid polymer

#### **Consumption:**

**MYK Aquafin 2C** to be applied at 3.5 Kg /m<sup>2</sup>.

#### 2) **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.

**MYK Aso Joint Tape 2000****MYK Aso Joint Tape for Corners****Methodology:**

- Step-1:- Surface preparation
- Step-2:- Mixing of **MYK Aquafin 2C**
- Step-3:- Fixing of **MYK Aso Joint Tape 2000**
- Step-4:- Application of **MYK Aquafin 2C**

**Surface preparation:**

- The area to be treated should be cleaned thoroughly with mechanical means especially for structure.
- For new surfaces wire brushing, vacuum cleaning will be sufficient and it should be ensured that the substrate is clean fine pored and free from any loose particles, dust laitance, mould release agents & curing compounds etc.
- Use suitable methods to prepare the substrate dependent on its condition such as brushing, vacuuming, grinding, milling, shot-blasting and water jetting.
- If the surface has potholes or undulations of more than 3mm the surface should be leveled with suitable material like polymer modified ready-made repair mortar, which have Non-shrink properties, or are shrinkage compensated.

The floor and the wall junctions should be cleaned thoroughly to have a uniform edge to receive the **MYK Aso Joint Tape 2000** treatment.

**Mixing:**

- 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 to be treated should be 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 @ 3-3.5kg/M<sup>2</sup> in two coats.
- The first coat should be applied horizontally @ 2-2.5 kg/M<sup>2</sup>.
- The second coat should be applied vertically at an interval of 4-5 hours at 20° C.  
(**Note:** The application consumption for 1st coat and 2<sup>nd</sup> coat is given as a guide line for your understanding.)
- This will be purely based on the prevailing atmospheric conditions.
- More the ambient temperature lesser the time gap.

**Note:** - Application should be carried out from the top of all the channel areas to the bottom.

#### **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. It should be treated with **MYK Aquafin 2C** and finished.
- All expansion joints to be carried thru the treatment and should be filled with a suitable sealant with min. movement accommodation of 25% like Polysulphide sealant.
- 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, pointed objects etc should be avoided.
- If any further construction activity is undertaken which requires using the slab for movement on the coated surface, it should be properly protected with a plastic sheet.

**Health & Safety**

- Adopt health & safety regulations in accordance with local laws. Care should be taken when handling.
- **MYK AQUAFIN-2C** as it is 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.