

SPECIFICATION AND METHODOLOGY FOR RETAINING WALL WATERPROOFING

Retaining wall Criteria

- Fully cured -28 days
- Care should be taken for all the critical areas such as shuttering joints, Tie rods, honey combed areas etc.

Specification for Retaining wall waterproofing

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

The product should demonstrate following properties

- Crack bridging -up to 1.5mm
- Tensile elongation -up to 80%
- Vapour diffusion- approx. 1000 μ
- UV, age and frost resistant
- Water head pressure- up to 7 bar
- Proper care should be taken for all critical areas like shuttering joints, Tie rods etc.

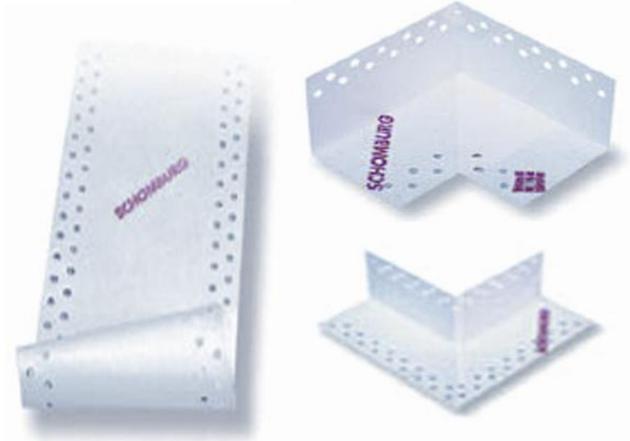
Products recommended:

- 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

Consumption:
MYK Aquafin 2C to be applied at 3 Kg /m².

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, 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 construction joints should be cleaned thoroughly to have a uniform edge to receive the **MYK Aso Joint Tape 2000** treatment.

Mixing of MYK Aquafin 2C:

- Take the 2/3rd 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/m² 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 approx7 days
 - Fixing of tiles etc after 1 day
- at ambient temperatures of +20°C and 60%relative humidity.

WATCHPOINTS

- All the critical areas like construction joints should be treated properly before doing the application of **MYK Aquafin 2C**.
- 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.