

## **SPECIFICATION AND METHODOLOGY FOR INCLINED ROOF WATERPROOFING (NEW)**

### **Specification for inclined roof waterproofing**

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

The product should demonstrate following properties

- Crack bridging -up to 1mm
- Tensile elongation -up to 30%
- Adhesion strength - approx. 1N/mm<sup>2</sup> at 28 days
- Vapour diffusion- approx. 2000μ
- Water head pressure- up to 5 bars (Positive)

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

### **Products recommended**

#### **1) MYK Aquafin-UM**

It is a two component material. It is an acrylic based flexible protective coating & waterproof barrier resistant to water, moisture and abrasion. It has crack bridging up to 1mm.

**Pack Size:** 33.3 Kg Composite Pack,  
25 Kg Powder + 8.33 kg liquid polymer

#### **Mixing ratio: 3 parts of powder to 1 parts of liquid by weight**

It is highly recommended to use **MYK ASO Joint Tape** Technology for the critical areas such as wall and slab joints and on any construction joints, down take outlets etc.

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

It is a composite material with expandable and waterproof and high elongation properties.

**Packing:** 12cm x 50mtrs Roll  
20cm x 50mtr Roll

#### **Consumption:**

**MYK Aquafin UM** to be applied at 3 kg/m<sup>2</sup> in two coats.

### **Methodology:**

- Step-1:- Surface preparation
- Step-2:- Mixing of **MYK Aquafin UM**
- Step-3:- Fixing of **MYK Aso Joint Tape-2000**
- Step-4:- Application of **MYK Aquafin UM**
- Step-5:- Application of Screed

### **Surface preparation**

- 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 V-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.

### **Mixing of MYK Aquafin UM**

- Take 1/3<sup>rd</sup> content of the liquid **MYK Aquafin UM** & pour into a clean container and add **MYK Aquafin UM** powder into it.
- Stir well with a mechanical means until lump free homogeneous mix is obtained.

### **Fixing of MYK 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 UM**).

### **Application of MYK Aquafin UM**

- 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.

**Note:-** The waterproofing coating shall be continued over the parapet wall from the top.

#### **By brush:**

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

### **Curing Of MYK Aquafin UM**

**MYK Aquafin UM** is self curing under normal condition but in harsh condition water (Sprinkle water) curing is required for 3 days.

The coated substrate/area can be exposed to:

- Rain ,vertical surface after approximately 3 hours
- Rain ,horizontal surface after approximately 6 hours
- Foot traffic after approx.1 day
- Pressure water after approx7 days
- Fixing of tiles etc after 1 day

### **Application of Screed**

- When the surface attained minimum strength (after 3-4 days) then laying the screed on the waterproofing coating.
- The final layer of avg.30 mm thick should be provided with cement concrete with 12mm black metal coba.
- The whole system should be cured for 21 days by flooding the water to 25mm for better results.
- It gives protection for the waterproofing treatment and better abrasion resistance.

### **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 UM** and finished.
- All the critical areas like construction joints, down take pipes should be treated properly before doing the application of **MYK Aquafin UM**.
- The waterproofing coating shall be continued over the parapet wall to the top.
- Screed is to be provided (after 3-4 days) on top of the waterproofing treatment (**MYK Aquafin UM**) for the protection of the membrane coating and for better water level to run down the drains.
- 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-UM** 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-UM** 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.