

SPECIFICATION AND METHODOLOGY FOR LIFT PIT WITH CRYSTALLINE WATERPROOFING SYSTEM

Lift pit Criteria

Care should be taken for all the critical areas like water closet, bore packing etc.

Specification for lift pit waterproofing

Apply 2 coats of waterproofing system to the Lift Pit.

The product should demonstrate following properties

- Chloride free
- Crack bridging -up to 0.4mm
- Excellent pore blocking.
- Resists water pressure up to 13 bars

Products recommended

1) **MYK Aquafin-IC**

It is a single component crystalline waterproofing. Continually active and it can be applied on damp substrates.

Pack Size: 25 kg Pack

2) **MYK Grout Add**

It is a single pack powder Grout additive which is added to cement to produce a free-flow non-shrink expansive grout additive. It is generally used for injection pressure grouting wherever void filling is required and weak concrete structures, honey combed areas etc.

Pack Size: 250 grams Pack

Consumption:

MYK Aquafin IC to be applied 1.5 Kg /m² in two coats.

Methodology

- Step-1:- Surface preparation
- Step-2:- Procedure of Injection pressure grouting
- Step-3:- Mixing of **MYK Aquafin-IC**
- Step-4:- Application of **MYK Aquafin-IC**

Surface preparation

- Proper preparation of the substrate is essential for better adhesion with the forthcoming coating or mortar.
- If any contamination such as oil, grease, loose particle then it should be removed by a mechanical mean like scrubbing etc.
- If any visible cracks more than 0.4mm then make a U-groove which is 20mm wide and 25mm deep and filled with polymer modified ready-made repair mortar.
- The surface pore should be opened.
- If smooth surface then it should be mechanically abraded in order to achieve good penetration.

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/cm² 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 IC

- Take 6.75-8 lit of clean water in a clean container.
- Add 25 kg bag of **MYK Aquafin-IC** into the container and stir it thoroughly by a mechanical mean @500-700 rpm until a homogeneous mix is obtained.

Application of MYK Aquafin IC

- The substrate should be in Surface saturated dry (SSD) condition.
- Care should be taken that there is no water pooling / excess water standing on the floor.
- The **MYK Aquafin-IC** is applied horizontally @ 1.5 kg/m² in two coats.
- The material is applied with a brush evenly on the substrates.
- The second coat is applied on 'wet on wet' condition.

By brush:

The application of **MYK AQUAFIN-IC** is a simple brush application.
Use roofer brush.

Curing of MYK Aquafin-IC

Water curing is required 2 times in a day for 3 days.

The coated substrate/area can be exposed to:

- Rain after approx. 24 hours
- Foot traffic after approx.5 day
- Backfilling after approx 3 days

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.
- All the critical areas like water closet, bore packing should be treated properly.
- The pore should be kept open before doing the application of **MYK Aquafin IC**.
- Application of 2nd coat should be timely applied.
- If the temperature is more then curing is done 3 times in a day.

Health & Safety

- Adopt health & safety regulations in accordance with local laws. Care should be taken when handling.
- **MYK AQUAFIN-IC** 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-IC** 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.