

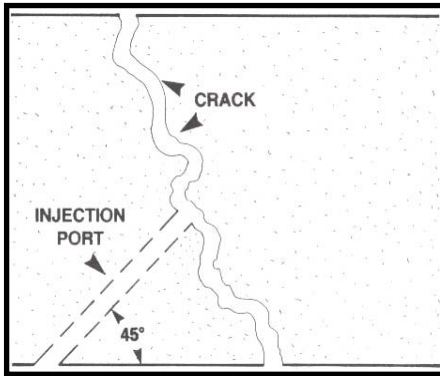


Cairo Metro Line 3, Egypt

Project Name: Cairo Metro Line 3
Scope: Injection & Repair Works
City: Cairo
Country: Egypt
Main Contractor: Egyptian French Joint Venture
Applicator: For Civil Works
Construction Period: Sodeco Specialties S.A.E
Owner: 2008 -2012
 National Authority For Tunnels



Leakage Repair



Technical Information

Products Used: Polythixon PM
Litters Injected: 50 Tons

❖ Polythixon PM Injection Material.

- Polythixon PM is an Elastic, odorless polyurethane with a high tensile strength, comprising 2 components: phase 1 & 2 for sealing seeping water through cracks, concrete defects, construction & expansion joints
- Polythixon PM does not attack bitumen, sealing materials nor foils modified with bitumen or styropor/PUR-foam
- Polythixon PM can be injected in dry and wet conditions
- Polythixon PM has proven a loud satisfaction for wet concrete, soil, P.V.C, waterstop, bitumen, etc...
- Polythixon PM has been approved to be friendly to environment

CRACK REPAIRS:

Step 1: Clean the surface

Examination of the crack after cleaning, specifies to the technician where the cracks goes and how wide it is. The crack must also be seen clearly in order to lay out the drilling pattern for the injection holes

Step 2: Drill injection holes

The diameter, angle, and depth of injection holes (or ports) can largely be pre-determined and specified. The angle of drilling is approximately 45 to the surface & the depth of the hole to reach 1/2 the thickness of the concrete.



Step 3:

Sealing the surfaces of the cracks with fast setting cement will divert the water leakage through the successfully drilled & installed packers.

